External Return Bin Installation and Service Guide

67-2038 Rev D

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Overview

This document provides installation and service instructions for the External Return Bin (ERB) on the G3 cabinets, the G3 cabinets with the G4 electronics box, and the G4 cabinets.

The ERB is used to collect unused medication after it has been issued to a patient. Only one return bin is supported per cabinet.

The ERB can be mounted to:

- OmniRx Color Touch cabinets
- OmniTT Color Touch cabinets
- Half-Cell Color Touch cabinets
- One-, two-, and three-cell Color Touch cabinets
- Anesthesia Workstations
- Walls
- Table tops

The ERB comes built with a standard 4-foot cable mounted on the right side of the bin.

Software Requirements

The cabinet to which the ERB is attached must be running Color Touch 5.3 or higher.

Software Configuration Options

Refer to the Color Touch user guide of the version on the cabinet for the options that support the External Return Bin.

Tools

The following tools are needed to install or mount the External Return Bin:

- Nut driver (5/16", 11/32", and 1/4")
- Allen wrench (3/32", 9/64" and 5/32")
- Crescent wrench
- T8 Torx driver
- T10 Torx driver
- T15 Torx driver
- T20 Torx driver
- Phillips screwdriver #2 for the ERB handle

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ERB Components

Figure 1-1 shows the components from the External Return Bin manufactured assembly. For a listing of kits, components or spares, see "Appendix A: Parts" on page A-1.

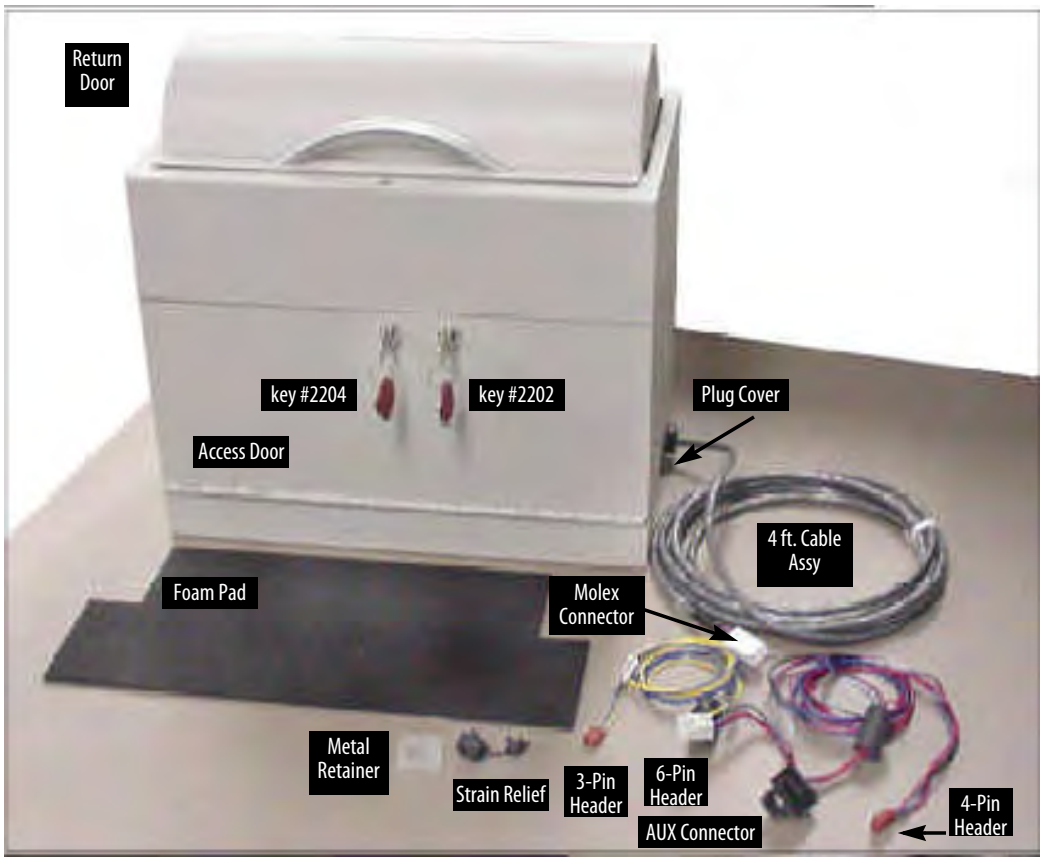

Figure 1-1. ERB Mfg. Assembly #14-7030

Mounting Brackets

Kit #20-6021 contains various mounting brackets. The mounting part numbers and type are stamped into the metal.

OmniRx

Figure 1-2. OmniRx brackets

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OmniTT

Figure 1-3. OmniTT brackets

Half-Cell Cabinet

Figure 1-4. Half-cell cabinet brackets

One-, Two-, and Three-Cell Cabinet

Figure 1-5. One-, two-, and three-cell cabinet brackets

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Anesthesia Workstation (AWS) G3

Figure 1-6. AWS G3 bracket

Anesthesia Workstation (AWS) G4

Figure 1-7. AWS G4 bracket

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Wall and Table Templates

Drill templates are available for mounting an ERB to a wall or table.

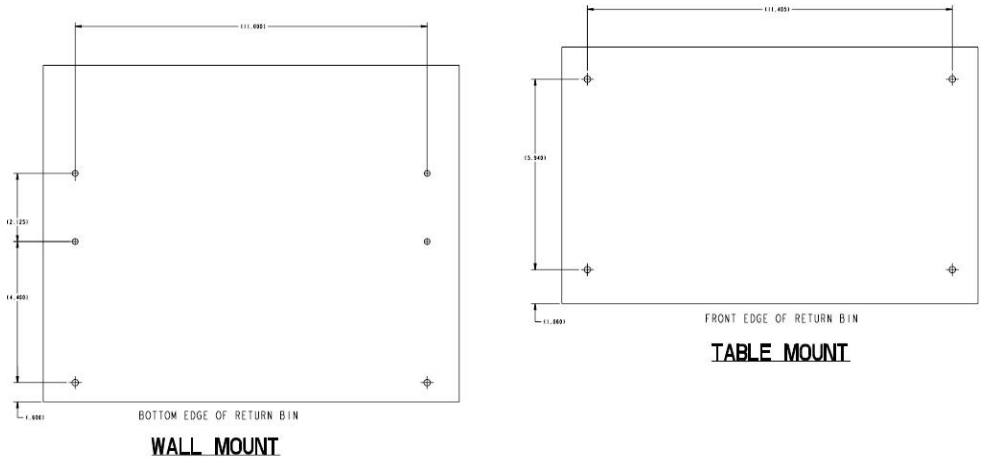

Figure 1-8. Wall and table mount templates #60-0052

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Installation Instructions

Setup

Before installing the ERB, change the cabling configuration if necessary, and perform cabinet preparation.

Cable Assembly Configuration

Important: The ERB cable assembly is configured to be installed on the right side of cabinets with the cables leading to the back. If the ERB is to be installed on the left side of the cabinet, the cable assembly must be switched to the left side. This avoids having to bend cables back across the ERB to reach the back of the cabinet.

If the ERB is to be installed on the right side of the cabinet, skip to "Cabinet Preparation" on page 2-10.

If the ERB is to be installed on the left side of the cabinet, continue in this section to change the cabling configuration.

1. Place the ERB on a flat clean surface.
2. Open the access door using both keys. Key #2204 unlocks the access door. Key #2202 overrides the solenoid.

Figure 2-1. Unlock the access door

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3. Lay the ERB down as shown in Figure 2-2, and unscrew the two 4-40 flat head fasteners from under the ERB.

Figure 2-2. Unscrewing the fasteners

4. Turn the ERB upright and lift out both I/O cover plates.

Figure 2-3. Removing the I/O cover plates

5. Remove the PCB/solenoid metal mount.
   a. Open the return door.
   b. Push the pawl of the solenoid to the left.

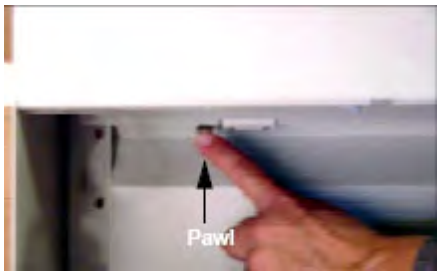

Figure 2-4. Pushing the pawl

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c. Loosen, but do not remove, the two nuts on either side of the PCB/solenoid plate with a 5/16" nut driver.

Figure 2-5. Loosening the nuts on both sides of the PCB/solenoid plate

d. Maneuver the PCB/solenoid mount around the sheet metal tabs and nuts. Remove the lower rim first.

Figure 2-6. Removing the PCB/solenoid mount

Under the PCB/solenoid mount is an internal cover to reduce the radiated emissions level.

6. Remove the RFI cover that is under the PCB/solenoid mount.
   a. Loosen the two hex nuts on either side of the internal cover using a 5/16” nut driver or socket.

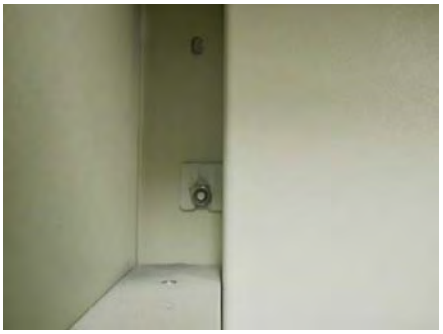

Figure 2-7. Loosening hex nuts

b. Disconnect the yellow solenoid cable for convenience.

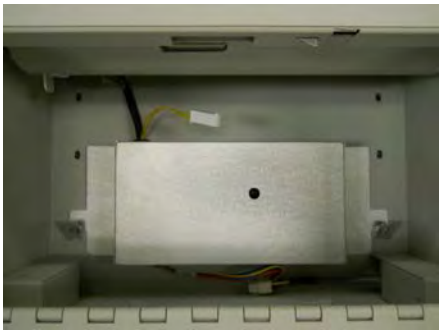

Figure 2-8. Disconnecting solenoid cable

c. Lift the RFI cover off the two studs. Slide the wiring rubber grommets down the two keyhole slots and remove the RFI cover completely.

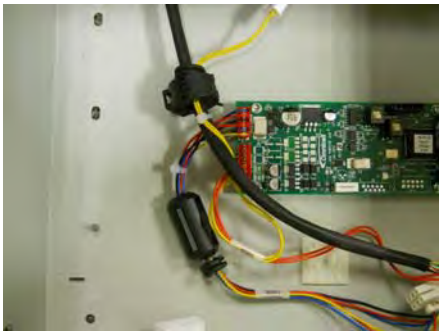

Figure 2-9. PC board with RFI cover removed

7. Unplug the PowerCom cable from J1 on the PC board.

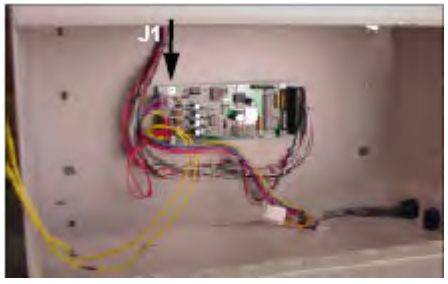

Figure 2-10. J1 location on the PC board

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8. Remove the gray PowerCom cable from the right side of the ERB and set it aside.

Figure 2-11. Removing the PowerCom cable

9. Squeeze and pull the black grommet to remove it from the opening.
10. Remove the black plug cover by pushing against the groove from the inside with a screwdriver.

Figure 2-12. Removing the plug cover

11. Thread the PowerCom cable through the rear cutout on the opposite side of the ERB. The correct orientation of the cable assembly exiting from the left side of the ERB is shown in the figure below.

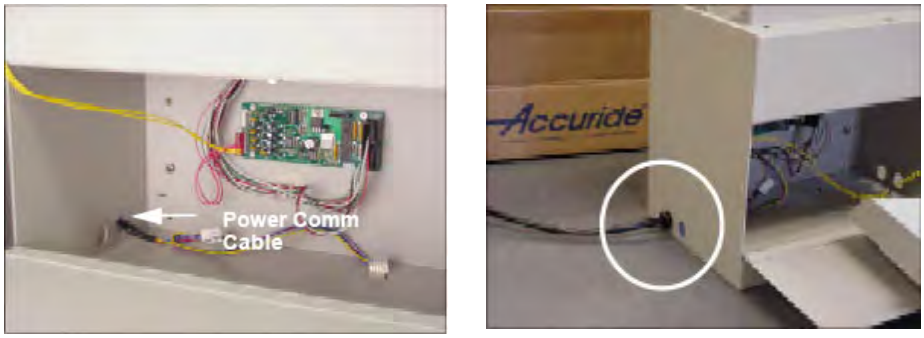

Figure 2-13. PowerCom cable routing

12. Cover the gray PowerCom cable with the black grommet taken off in step 9. Squeeze the grommet together and push through the double D cutout on the left side.

Figure 2-14. Securing the grommet around the PowerCom cable

13. Snap the plug cover into the left-side D cutout adjacent to the cable assembly. The plug covers the opening which will be used for future hardware developments.

Figure 2-15. Snapping in the plug

14. Rotate the lower plates. The open side of the left lower plate should face left. The open side of the right lower plate should face down. This allows the left cover plate to protect the cables being routed out of the ERB. The right cover plates will seal the cable openings on the right side of the ERB.

Figure 2-16. Orientation for left cover plates

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15. Install the left I/O cover plates. Take care not to pinch any wires.

Note: The 6-pin white connector is not used.

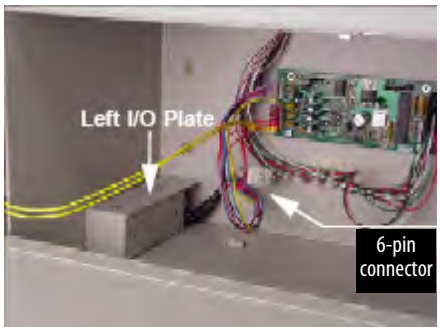

Figure 2-17. Left I/O cover plate

16. Re-insert the PowerCom cable into J1 on the PC board. Make sure all 6 pins on the cable connector are inserted.

Figure 2-18. J1 location

17. Secure the left I/O cover with the 4-40 flat head fastener removed in step 3 on page 2-2.

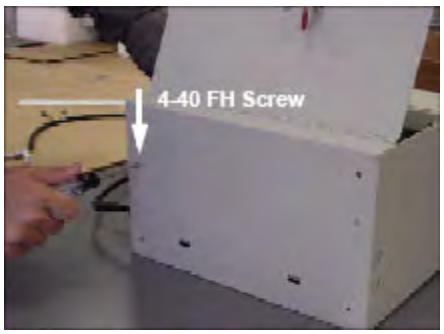

Figure 2-19. Replacing the fasteners

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18. Reinstall the RFI cover.
    a. Slide the two grommets back into the keyhole openings on the top and bottom of the RFI cover. Hold the RFI cover over the studs against the rear wall. Make sure wires are not pinched.

Figure 2-20. RFI rubber grommet

    b. Reconnect the 2 position yellow wire solenoid cable, and slide the internal cover over the studs.

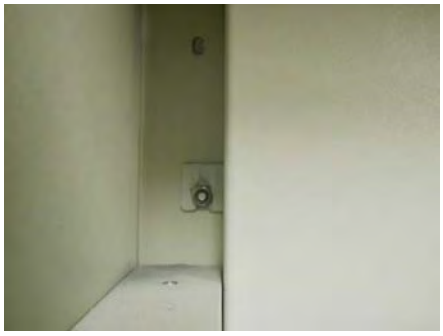

Figure 2-21. Sliding RFI over studs

    c. Retighten the two hex nuts. Tighten using the 5/16” nut driver or socket.
19. Reinstall the PCB/solenoid mount with the solenoid inserted first into the ERB housing, clearing the return door. Keep the external return door open while reinstalling the mount plate.

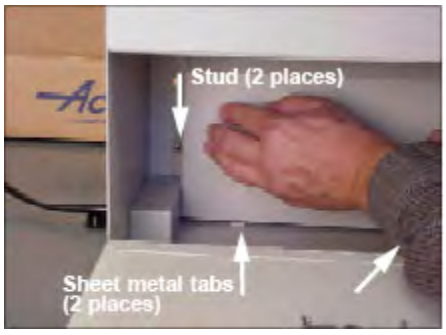

Figure 2-22. Installing the PCB/solenoid mount

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20. Maneuver the plate onto the two studs behind the nuts and position the bottom rim behind the sheet metal tabs. Be careful not to pinch the wires behind the plate.
21. Tighten the two loose nuts with a 5/16" nut driver.

Figure 2-23. Tightening the nuts

22. Install the right I/O cover plates.
23. Secure the right I/O cover plates with the 4-40 flat head fastener removed in step 3 on page 2-2. The side that does not have the cable installed has the two D cutouts covered by the I/O cover.

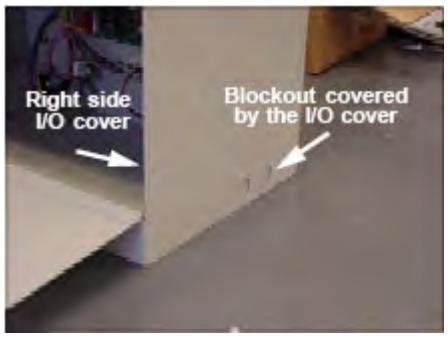

Figure 2-24. Covered cutouts

24. Close the return door.
25. Check that the solenoid lock mechanism is latching correctly.

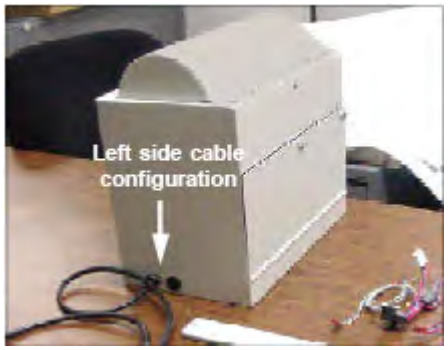

Figure 2-25. Complete assembly

Cabinet Preparation

1. Perform a graceful shutdown on the cabinet that is to have an ERB mounted.
2. Unplug the power cable.
3. Refer to the *Omnicell Drug Handling Policy and Procedures* for information regarding the removal of drugs from the internal return bin drawer.

Caution: The pharmacist must be present when servicing any drawers where medication is present.

4. Empty the contents of the internal return bin drawer if it exists.

Important: Once the ERB is enabled, the internal return bin is no longer accessible.

Installation on G3 Cabinets

This section contains ERB installation instructions for various G3 cabinet types. For installation on G3 cabinets that have the new G4 E-box, see "Installation on G3 Cabinets with G4 Console Upgrade" on page 2-40. For installation on G4 cabinets, see "Installation on G4 Cabinets" on page 2-45.

This section describes installation procedures for the following:

- "OmniTT" on page 2-10
- "OmniRx" on page 2-17
- "Half-Cell" on page 2-19
- "One-, Two-, and Three-Cell Cabinets" on page 2-21
- "Anesthesia Workstation (AWS) G3" on page 2-26

OmniTT

Attaching the ERB to the OmniTT

1. Remove the two screws securing the transport handle on the right side of the OmniTT Color Touch cabinet, then remove the original transport handle.

Figure 2-26. Removing the original transport handle

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2. Insert the longer end of the new transport handle into the left slot followed through with the other end into the right slot.

Figure 2-27. Installing the new transport handle

3. Secure the handle with the two screws removed in step 1. Note the threaded hole orientation.
4. Place the External Return Bin on a flat clean surface, before opening the access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid.

Figure 2-28. Opening the access door

5. Align the two drilled holes on the transport handle to the two drilled holes inside the ERB. Secure the handle with two #8 hex nuts.

Figure 2-29. Screw hole locations

6. Close and lock the access door

Cabling for the OmniTT G3

1. Lift the console cover from the back, then prop it open with a switch panel housing or the prop arm on a newer electronics tray.

Figure 2-30. Propping the cover

2. Review the back panel layout in Figure 2-26.

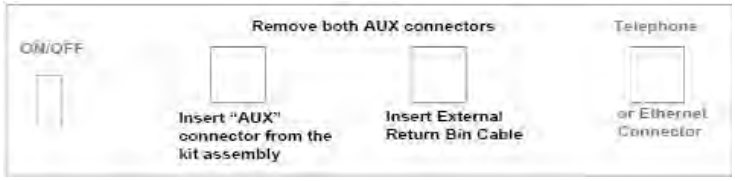

Figure 2-31. Back panel layout

3. Remove the AUX cable connector at the rear of the electronic sled by pushing down on the AUX connector and pulling it out through the back.

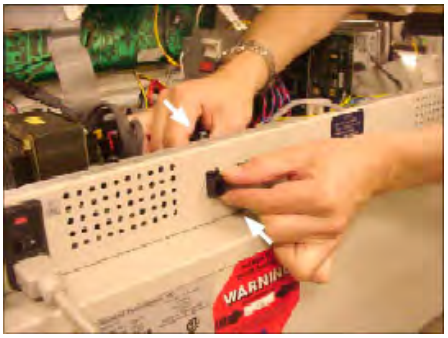

Figure 2-32. Removing the AUX cable connectors

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4. Remove the second AUX cable connector.

Figure 2-33. Removing the other Aux connector

5. Unplug the 4-pin connector from J24 (labeled AUX) on the PowerCom board, then remove the cable.

Figure 2-34. Unplugging the 4-pin connector

6. Insert the black AUX connector from the External Return Bin retrofit cable assembly (#42-7052) into the first opening.

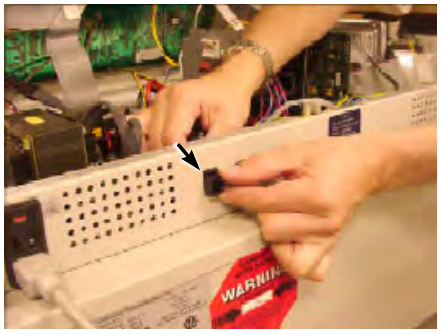

Figure 2-35. Inserting the AUX connector from the ERB cable assembly

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7. Plug in the 4-pin header connector on the retrofit AUX cable assembly into J24 (labeled AUX) on the PowerCom board.

Figure 2-36. Plugging in the 4-pin connector

8. Plug in the 3-pin connector with the blue and yellow cables on the retrofit AUX cable assembly into J16 (labeled MAG) on the PowerCom board.

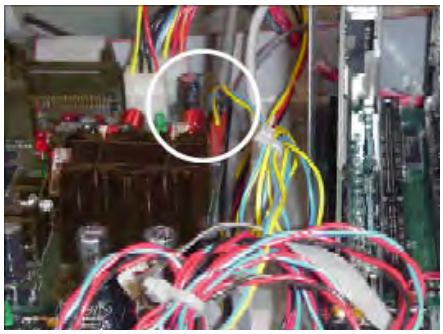

Figure 2-37. 3-pin connector location

9. Thread the ERB cable connector (white) through the second AUX opening.

Figure 2-38. Threading the ERB cable connector

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10. Slip the metal retaining bracket over the white connector and position it on the inside rear of the metal rail.

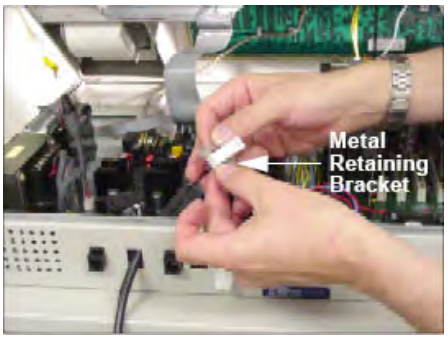

Figure 2-39. Slipping on the retaining bracket

11. Snap on the black grommet over the outside ERB cable.
12. Push the grommet half-way through the second AUX opening.
13. Snap the metal retainer into the groove of the black grommet. The grommet covers the cable so that the metal retainer snaps in the grommet groove and secures the cable to the inside back of the electronic sled.

Figure 2-40. Snapping the grommet and retainer in place

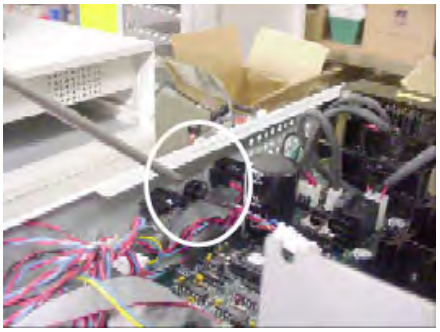

Figure 2-41. Inside view of retainer snapped on grommet to secure the cable

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14. Connect the ERB 6-pin female connector to the Molex mini-fit Jr. 6-pin connector on the retrofit AUX cable assembly.

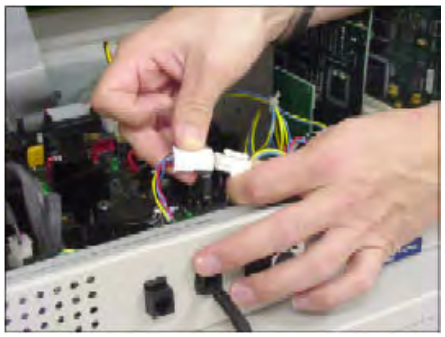

Figure 2-42. Connecting the 6-pin connector

15. Tuck all the cables out of the way. Use cable ties as needed.

Figure 2-43. Tucked cables

16. Remove the prop, then close the console cover.

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OmniRx

Attaching the ERB to the OmniRx

1. Preassemble the two #8-32 x 3/8" socket head cap screws to the modified transport handle in the kit.

Figure 2-44. Assembling the transport handle

2. Remove the screws that secure the original transport handle on the right side of the OmniRx Color Touch cabinet.

Figure 2-45. Removing the original transport handle

3. Remove the original transport handle and replace it with the modified transport handle.
4. Secure the new handle with the screws removed in step 2.
5. Place the mounting plate over the modified transport handle. Align the drilled holes over the studs on the handle.

Figure 2-46. Mounting plate

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6. Align the two drilled holes on the ERB to the two studs on the OmniRx mounting bracket plate.

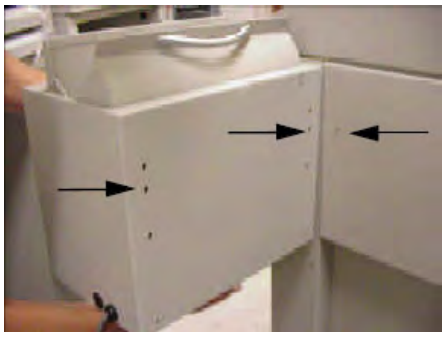

Figure 2-47. Aligned screw holes

7. Open the ERB access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid.
8. Fasten the ERB to the mounting plate with the two #8 hex nuts.

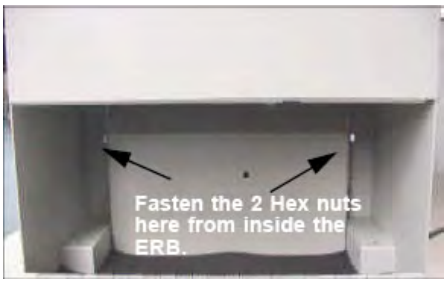

Figure 2-48. Hex nut locations

9. Close and lock the access door.

Cabling for the OmniRx G3

Connect the ERB to the OmniRx using the same procedures as for the OmniTT and half-cell cabinets. See "Cabling for the OmniTT G3" on page 2-12.

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Half-Cell

Attaching the ERB to the Half-Cell

1. Install the half-cell mounting bracket to the right side of the half-cell using (4) #8-32 x 1/4" flat head cap screws.

Figure 2-49. Installing mounting bracket

2. Align the drilled holes circled on the ERB to the half-cell bracket plate.

Figure 2-50. Aligned drill holes

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3. Open the ERB access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid.

Figure 2-51. Opening the access door

4. Secure the ERB with four #8 hex nuts.

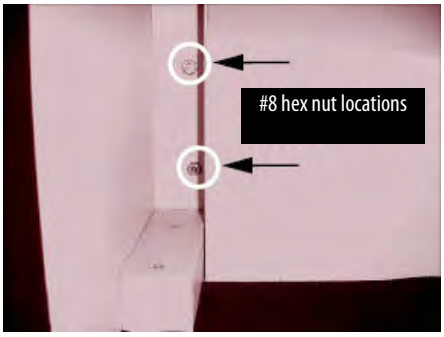

Figure 2-52. Hex nut locations

5. Close and lock the access door.

Cabling for the Half-Cell G3

Connect the ERB to the half-cell cabinet using the same wiring procedures as for the OmniTT and OmniRx. See "Cabling for the OmniTT G3" on page 2-12.

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One-, Two-, and Three-Cell Cabinets

There are restrictions for installing an ERB on tall (1-, 2-, and 3-cell) cabinets:

- The cabinet must have a PC box with a monitor.
- An ERB can be installed on either side of a single cell cabinet with a PC box. Reconfigure the ERB if installing it on the left side. See "Cable Assembly Configuration" on page 2-1 for instructions.
- Install the ERB on the right side of a multi-cell cabinet configuration which always has the cabinet with the PC box on the right side.

Note: A FlexLock cable can be used with an ERB.

Attaching the ERB to the One-, Two-, and Three-Cell Cabinets

1. Assemble the two #8-32 x 3/8" socket head cap screws to the modified transport handle in the kit.

Figure 2-53. Assembling the modified transport handle

2. Install the modified transport handle to the right side of the OmniSupplier cabinet.

Figure 2-54. Installing the modified transport handle

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3. Place the mounting bracket over the new transport handle.

Figure 2-55. Placing mounting bracket

4. Open the ERB access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid.
5. Align the ERB drilled holes to the metal studs on the mounting plate.

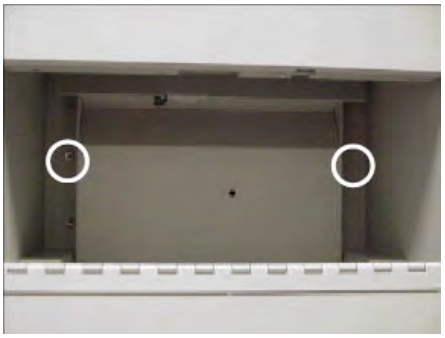

Figure 2-56. Aligned drill holes

6. Fasten the ERB to the mounting plate with #8 hex nuts in two places.

Figure 2-57. Securing the ERB

7. Close and lock the access door.

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Cabling for One-, Two-, and Three-Cell G3 Cabinets

1. Pull out the PC box.

Figure 2-58. PC box pulled out

2. Lift and remove the PC box lid.

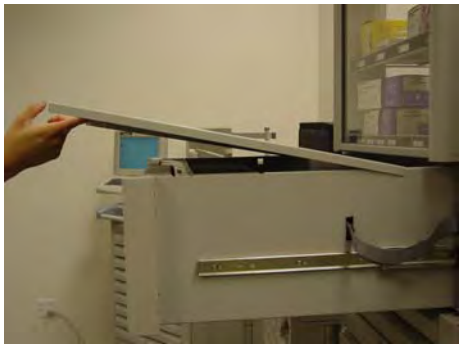

Figure 2-59. Lifting the lid

3. Remove the two AUX connectors.

Figure 2-60. AUX connector locations—inside and outside of PC box

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4. Disconnect the 4-pin PowerCom cable, then remove the AUX cable assembly.

Figure 2-61. The original AUX cable assembly removed

5. Install the AUX connector from the ERB kit.

Figure 2-62. New AUX connector

6. Insert the 4-pin connector into the AUX COM connection on the PowerCom board.

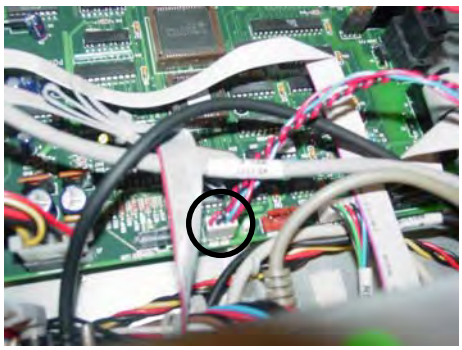

Figure 2-63. 4-pin connection location for the PowerCom cable

7. Plug in the 3-pin connector with the blue and yellow cables on the retrofit AUX cable assembly into J16 (labeled MAG) on the PowerCom board.
8. Pull the ERB cable through the ERB connection opening.
9. Slip on the metal retainer over the ERB cable inside the PC box.

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10. Connect the Molex connector of the ERB cable with the AUX cable assembly.

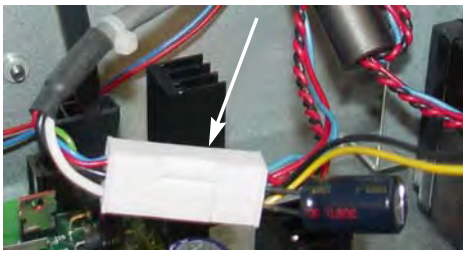

Figure 2-64. Molex connector

11. Pull any slack on the ERB cable out of the PC box.
12. Snap on the black grommet over the ERB cable, then push it half-way through the second AUX opening.

Figure 2-65. Grommet placement

13. Snap the metal retainer in the grommet groove to secure the cable to the inside back of the electronic sled.
14. Secure new cables in the PC box using a Kurly lock or cable tie.

Figure 2-66. Secured cables

15. Cover the PC box with its lid.
16. Push the PC box back into place.

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Anesthesia Workstation (AWS) G3

Attaching the ERB to the AWS G3

The ERB is attached to the left side of the AWS G3. Steps 2 through 16 describe reconfiguring the cabling for installation on the left side.

1. Place the AWS bracket on the left side of the AWS and fasten to the side with four #8-32 x 3/16 buttonhead screws.

Figure 2-67. Placing the AWS bracket on the left side of the AWS G3

2. Open the ERB access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid. The I/O cover plates can be seen.

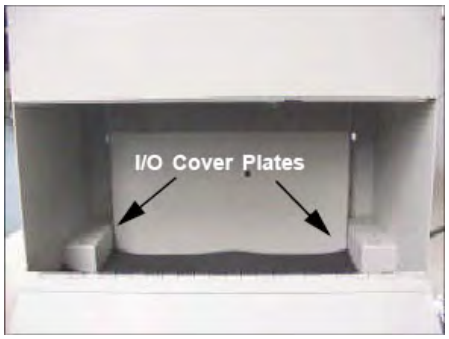

Figure 2-68. I/O cover plate locations

3. Lay the ERB down as shown in Figure 2-69, and unscrew the two 4-40 flat head fasteners from under the ERB.

Figure 2-69. Unscrewing the fasteners

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4. Turn the ERB upright and lift out both I/O cover plates.

Figure 2-70. Removing the I/O cover plates

5. Remove the PCB/solenoid metal mount.
   a. Open the return door.
   b. Push the pawl of the solenoid to the left.

Figure 2-71. Pushing the pawl

   c. Loosen, but do not remove, the two nuts on either side of the PCB/solenoid plate with a 5/16" nut driver.

Figure 2-72. Loosening the nuts on both sides of the PCB/solenoid plate

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d. Maneuver the PCB/solenoid mount around the sheet metal tabs and nuts. Remove the lower rim first.

Figure 2-73. Removing the PCB/solenoid mount

Under the PCB/solenoid mount is an internal cover to reduce the radiated emissions level.

6. Remove the RFI cover that is under the PCB/solenoid mount.

a. Loosen the two hex nuts on either side of the internal cover using a 5/16" nut driver or socket.

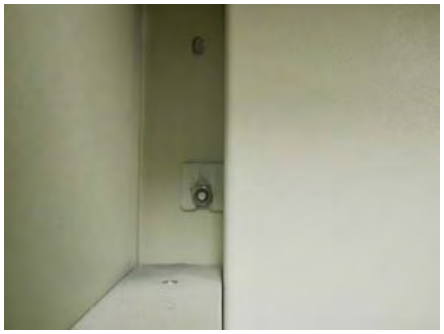

Figure 2-74. Loosening hex nuts

b. Disconnect the yellow solenoid cable for convenience.

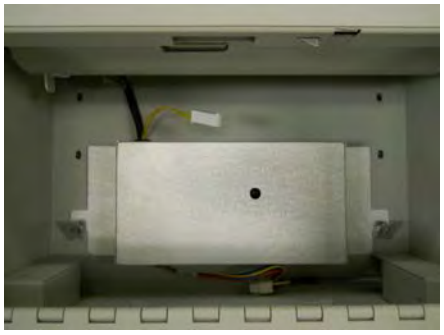

Figure 2-75. Disconnecting solenoid cable

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c. Lift the RFI cover off the two studs. Slide the wiring rubber grommets down the two keyhole slots and remove the RFI cover completely.

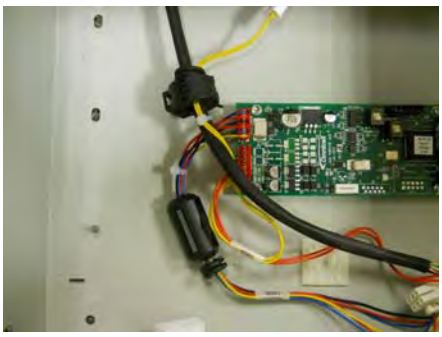

Figure 2-76. PC board with RFI cover removed

7. Unplug the PowerCom cable from J1 on the PC board.

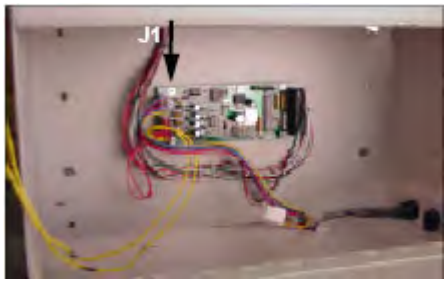

Figure 2-77. J1 location on the PC board

8. Remove the gray PowerCom cable from the right side of the ERB and set it aside.

Figure 2-78. Removing the PowerCom cable

9. Squeeze and pull the black grommet to remove it from the opening.

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10. Remove the black plug cover by pushing against the groove from the inside with a screwdriver.

Figure 2-79. Removing the plug cover

11. Thread the PowerCom cable through the rear cutout on the opposite side of the ERB. The correct orientation of the cable assembly exiting from the left side of the ERB is shown in the figure below.

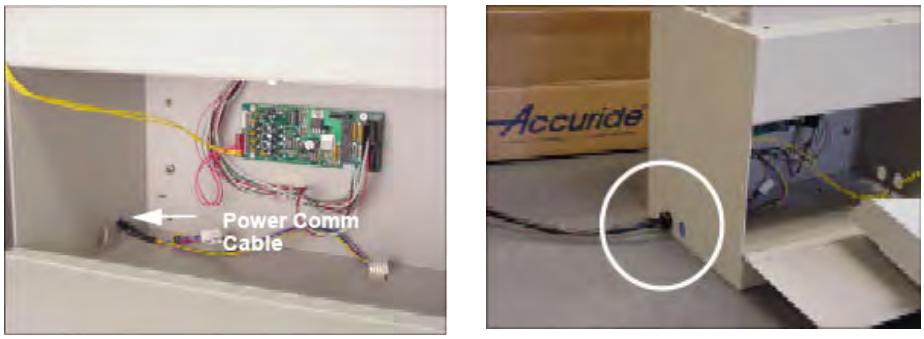

Figure 2-80. PowerCom cable routing

12. Cover the gray PowerCom cable with the black grommet taken off in step 9. Squeeze the grommet together and push through the double D cutout on the left side.

Figure 2-81. Securing the grommet around the PowerCom cable

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13. Snap the plug cover into the left-side D cutout adjacent to the cable assembly. The plug covers the opening which will be used for future hardware developments.

Figure 2-82. Snapping in the plug

14. Re-insert the PowerCom cable into J1 on the PC board. Make sure all 6 pins on the cable connector are inserted.

Figure 2-83. J1 location

15. Align the four circled drilled holes on the back of the ERB to the metal studs on the AWS mounting bracket.

Figure 2-84. Aligning the drill holes

16. Fasten the ERB with four #8 hex nuts to the metal studs on the AWS mounting bracket.

Figure 2-85. Securing the ERB

17. Rotate the lower plates. The open side of the left lower plate should face left. The open side of the right lower plate should face down. This allows the left cover plate to protect the cables being routed out of the ERB. The right cover plates will seal the cable openings on the right side of the ERB.

Figure 2-86. Orientation for left cover plates

Note: The 6-pin white connector is not used.

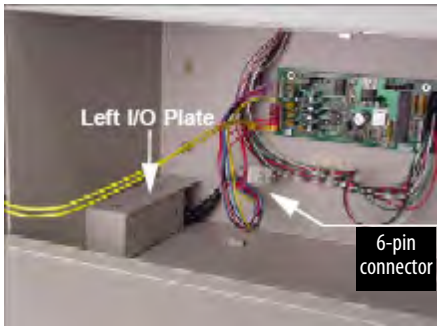

Figure 2-87. Left I/O cover plate

18. Re-install the I/O cover plates, being careful not to pinch any wires:
    a. Place the I/O cover plates in position.
    b. Secure the cover plates by screwing in the two 4-40 flat head fasteners.
19. Close and lock the access door.

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20. Review the rear layout of the workstation in Figure 2-54.

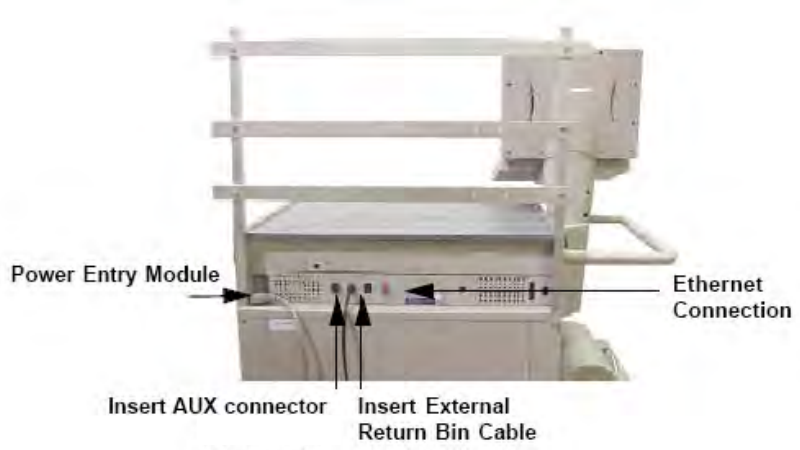

Figure 2-88. Rear layout of AWS G3

Cabling for the AWS G3

1. Unlock the workstation with key #2036 by turning the key a quarter turn to the left.

Figure 2-89. Key #2036 orientation

2. Swivel the LCD monitor and keyboard to the left, away from the worksurface.

Figure 2-90. Monitor orientation

3. Tilt the worksurface up, pull it forward, then lift it up and away. Set it aside.

Figure 2-91. Tilting the worksurface

Figure 2-92. Pulling the worksurface forward

Figure 2-93. Lifting the worksurface

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4. Remove the AUX cable connector at the rear of the electronic sled by pushing down on the AUX connector and pushing it inside.

Figure 2-94. Removing the first AUX connector

5. Remove the second AUX cable connector.

Figure 2-95. Removing the other AUX connector

6. Unplug the 4-pin connector from J24 (labeled AUX) on the PowerCom board, then remove the cable.

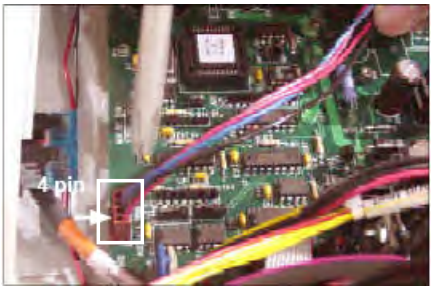

Figure 2-96. 4-pin connector location

7. Insert the black AUX connector from the ERB retrofit cable assembly (#42-7052) into the first opening.

Figure 2-97. Inserting the AUX connector from ERB cable assembly

8. Plug in the 4-pin header connector on the retrofit AUX cable assembly into J24 (labeled AUX) on the PowerCom board.

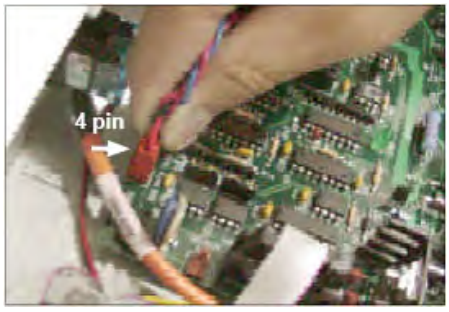

Figure 2-98. Plugging in 4-pin connector

9. Plug in the 3-pin connector with the blue and yellow cables on the retrofit AUX cable assembly into J16 (labeled MAG) on the PowerCom board.

Figure 2-99. 3-pin connector location

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10. Thread the ERB cable connector (white) through the second AUX opening.

Figure 2-100. Threading the ERB cable

11. Slip the metal retaining bracket over the white connector, pulling it down the cable.

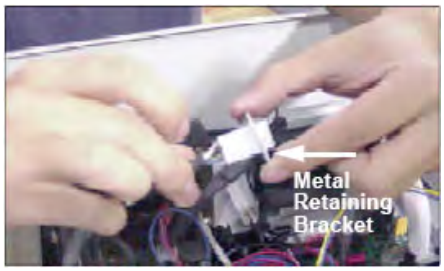

Figure 2-101. Slipping on the retaining bracket

12. Snap on the black grommet over the ERB cable, then push it half-way through the second AUX opening.

Figure 2-102. Snapping on the grommet

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13. Snap the metal retainer in the grommet groove to secure the cable to the inside back of the electronic sled.

Figure 2-103. Metal retainer snapped in place

14. Connect the ERB 6-pin female connector to the Molex mini-fit Jr. 6-pin connector on the retrofit AUX cable assembly.

Figure 2-104. Connecting the 6-pin connector

15. Tuck all the cables out of the way. Use cable ties as needed.

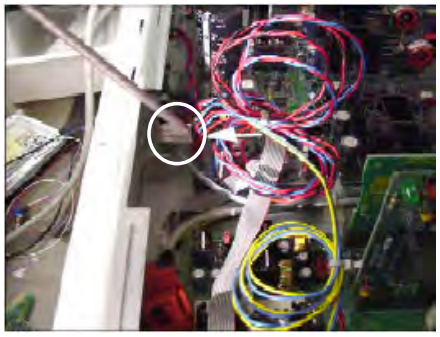

Figure 2-105. Tied cables

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16. Place the worksurface back into place, then lock it.

Figure 2-106. Completed installation

Installation on G3 Cabinets with G4 Console Upgrade

Attaching the ERB

With the exception of the AWS, installation of the ERB on G3 cabinets that have an upgraded G4 E-box differs from G3 and G4 installation only in the cabling. Perform the steps described in "Installation on G3 Cabinets" as listed below for attaching the ERB, then use this section to refer to the correct procedures for the cabling. The steps for attaching the ERB to the individual cabinets are in the following sections:

- "Attaching the ERB to the OmniTT" on page 2-10
- "Attaching the ERB to the OmniRx" on page 2-17
- "Attaching the ERB to the Half-Cell" on page 2-19
- "Attaching the ERB to the One-, Two-, and Three-Cell Cabinets" on page 2-21
- "Attaching the ERB to the AWS G3" on page 2-26

Cabling for the OmniTT G3 With a G4 Console Upgrade

Connect the ERB to the OmniTT using the same wiring procedures as for the OmniTT G4. See "Cabling for the OmniTT G4" on page 2-46.

Cabling for the OmniRx G3 with a G4 Console Upgrade

Connect the ERB to the OmniRx using the wiring procedure described in "Cabling for the OmniTT G4" on page 2-46

Cabling for the Half-Cell G3 with a G4 Console Upgrade

Connect the ERB to the half-cell cabinet using the wiring procedure described in "Cabling for the OmniTT G4" on page 2-46.

Cabling for the One-, Two-, Three Cell with a G4 Console Upgrade

Connect the ERB to the cabinet using the wiring procedure described in "Cabling for the One-, Two-, Three-Cell G4 Cabinets" on page 2-55.

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Cabling for the Anesthesia Workstation G3 with the G4 Upgrade

Attaching the ERB to the AWS G3 with the G4 upgrade is the same as attaching it to the AWS G3, but the cabling is different. See "Attaching the ERB to the AWS G3" on page 2-26 to attach the ERB. This section describes the cabling.

1. Remove the worksurface.
   a. Swivel the monitor out of the way.

Figure 2-107. Monitor swiveled away from worksurface

   b. Use the cam lock key #2036 to unlock the worksurface.
   c. Tilt the worksurface up, pull it forward, then lift it up and away. Set it aside.

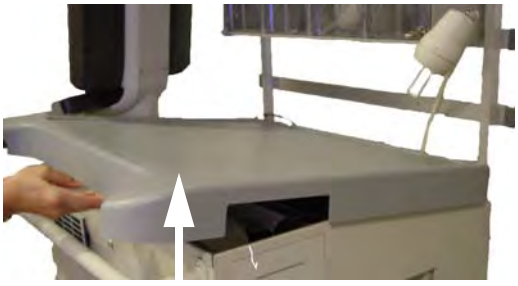

Figure 2-108. Tilting the worksurface

Figure 2-109. Pulling the worksurface forward

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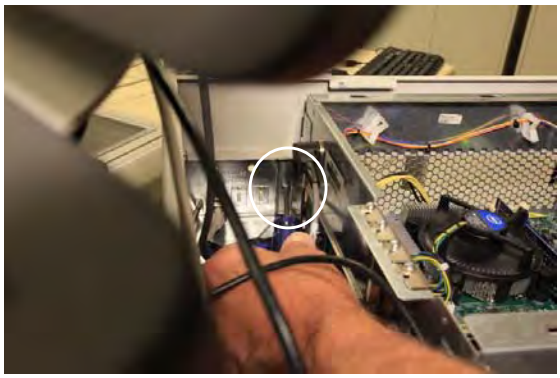
2. Remove the plate on the back monitor side.
   a. On the left side of the E-box, inside the cabinet, remove the screw that attaches the plate to the frame



   b. Press the plate to the inside to remove it.
3. Feed the ERB PowerCom cable in through the resulting hole.
4. Connect the ERB adapter cable to the E-box.

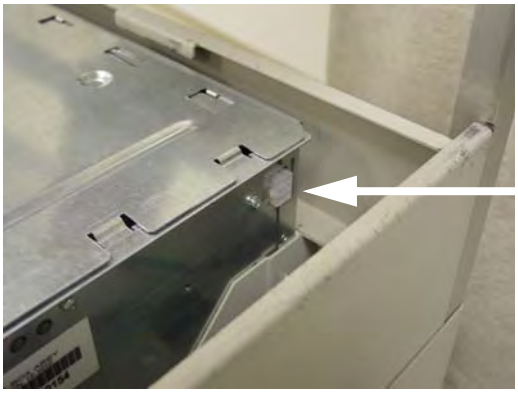


Figure 2-110. E-box connection point for ERB on AWS G3 with G4 console upgrade

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5. Route the gray ERB PowerCom cable around the front of the E-box and connect it to the adapter cable.

Figure 2-111. Routing the ERB cable around the front of the E-box

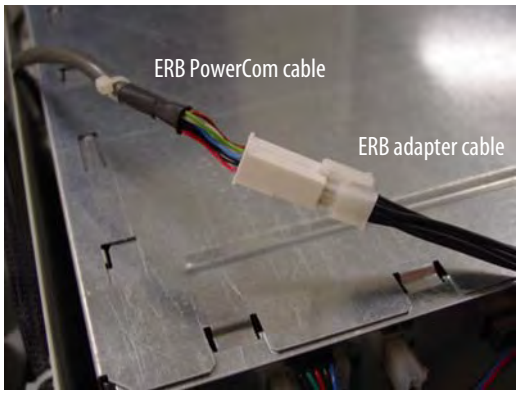
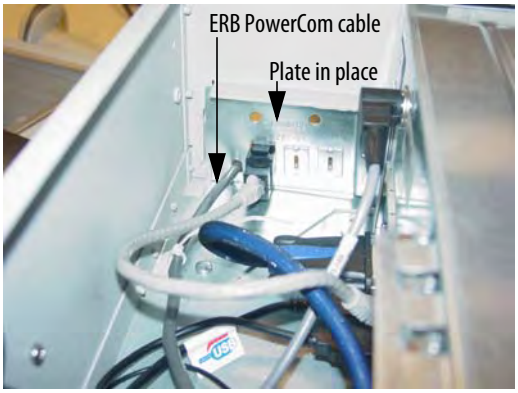


Figure 2-112. ERB PowerCom cable connected to ERB adapter cable

6. Cover the PowerCom cable with the slot in the plate removed in step 2.

7. Put the plate back into the opening and screw it into place on the inside of the frame.



8. Pull excess ERB PowerCom cable inside the frame and bundle the cables with cable ties.

9. Attach the ERB PowerCom cable to the bracket on the inside of the chassis for strain relief.

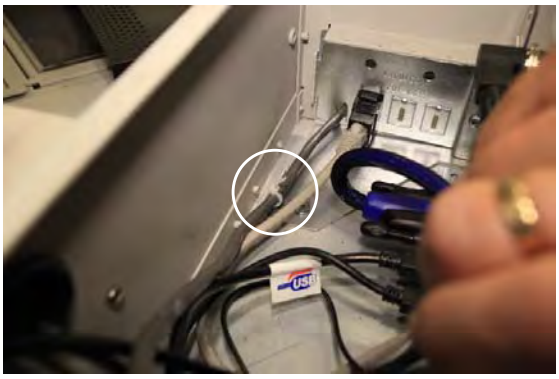


Figure 2-113.

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10. Replace the worksurface on the cabinet and lock it.

Figure 2-114. ERB PowerCom cable in AWS G3 upgraded to G4

Installation on G4 Cabinets

Attaching the ERB

With the exception of the AWS, installation of the ERB on G4 cabinets differs from G3 installation only in the cabling. Perform the steps described in "Installation on G3 Cabinets" for attaching the ERB, then use this section for the cabling. The steps for attaching the ERB to the individual cabinets are in the following sections:

- "Attaching the ERB to the OmniTT" on page 2-10
- "Attaching the ERB to the OmniRx" on page 2-17
- "Attaching the ERB to the Half-Cell" on page 2-19
- "Attaching the ERB to the One-, Two-, and Three-Cell Cabinets" on page 2-21

This section describes the cabling procedures in the following sections:

"Cabling for the OmniTT G4" on page 2-46

"Cabling for the OmniRx G4" on page 2-54

"Cabling for the Half-Cell G4" on page 2-54

"Cabling for the One-, Two-, Three-Cell G4 Cabinets" on page 2-55

"Installing on the Anesthesia Workstation (AWS G4)" on page 2-58

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Cabling for the OmniTT G4

If possible the ERB should be installed on the left side (monitor side) of the OmniTT G4, to maximize strain relief.

Cabling for the ERB on the Left Side of the Cabinet

1. Reconfigure the cabling in the ERB as described in "Cable Assembly Configuration" on page 2-1.
2. Remove the lid from the cabinet.
   a. Use the #2378 cam lock key to unlock the lid.

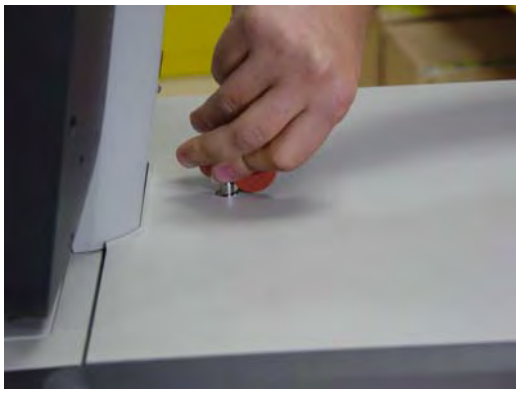

Figure 2-115. Unlocking the lid

   b. Rotate the lid up, and lift it from the hooks that hold it.

Figure 2-116. Removing the lid

Note: Although it is possible to prop the cover open with the kick stand, removing it provides better access.

   c. Place the lid aside.

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3. Holding the notch on the back of the printer paper holder, rotate the printer paper holder forward and remove it.

Figure 2-117. Removing the paper holder

4. Use a flat head screwdriver to remove the metal cutout on the back of the cabinet, rocking it back and forth until the metal breaks away.

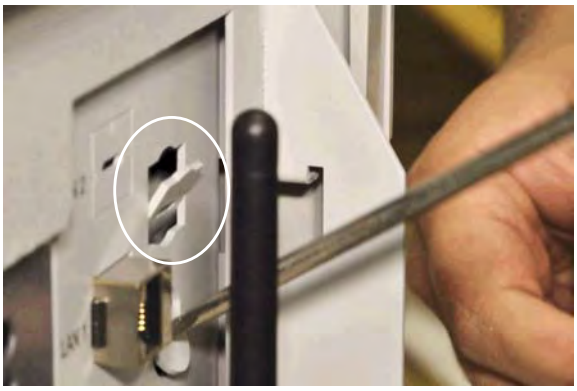

Figure 2-118. Opening slot for ERB Power/Com cable

Figure 2-119. ERB PowerCom slot location

Note: A limited number of systems might not have this cutout. In such a case, it is necessary to route the cable on the other side.

5. Pass the ERB PowerCom cable through the opening.

Figure 2-120. Passing the ERB PowerCom cable through opening

6. Make sure at least 15 inches of the cable is inside the cabinet.

Figure 2-121. Measuring length of cable inside cabinet

Note: Do not secure the ERB PowerCom cable with the grommet yet to allow slack for routing the cable around the E-box.

7. Connect the ERB adapter cable to the ERB PowerCom cable.

Figure 2-122. Attaching the adapter cable to the PowerCom cable

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Note: Do not connect the adapter cable to the E-box before routing, or the female connector will not clear the gap between the E-box and the frame.

8. Route the adapter cable along the front of the E-box.

Note: It might be necessary to flex the display assembly and front lid plastic to be able to pass the cable through the opening.

Figure 2-123. Routing cable around E-box

Make sure the cable passes to the right of the kick stand (Tinnerman tower), so it doesn't get pinched.

Figure 2-124. Cable next to Tinnerman tower

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9. Connect the adapter cable to the E-box.

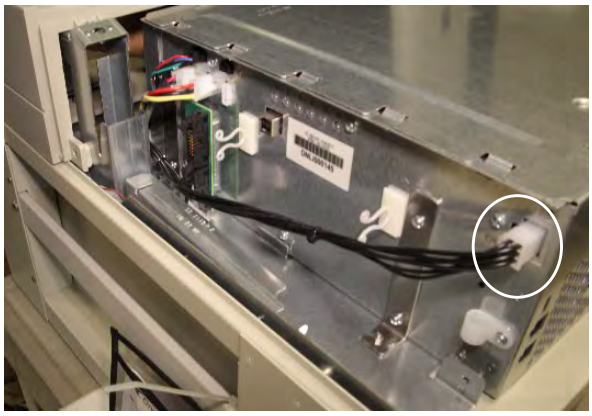

Figure 2-125. Adapter cable attached to E-box

10. Insert the adapter cable into the corrugated slit tubing (# 81-1302) that is located behind the printer paper holder.

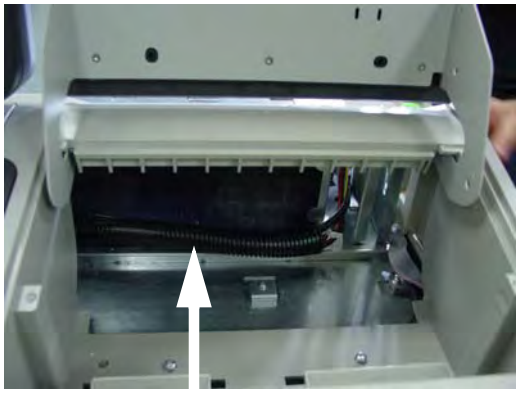

Figure 2-126. Corrugated slit tubing

11. Snap on the black grommet around the ERB PowerCom cable on the outside.
12. Squeeze the grommet with pliers and insert it in the opening to secure the cable to the rear panel.

Figure 2-127. Inserting the strain relief grommet

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13. Replace the paper holder by engaging the tabs with the large slots and rotating it back into place.

Figure 2-128. Paper holder slots and replacing paper holder

14. Replace the lid by setting it on the holder hooks and rotating it down.
15. Lock the lid.

Cabling for the ERB on the Right Side of the Cabinet

Note: Due to the lack of strain relief and potential for damage to the ERB PowerCom cable upon repeated cover replacement/removal, mounting the ERB on the right side of the cabinet is not recommended. However, when an ERB or Flex Lock is located on the right of the OmniTT, this cabling is preferable to reduce chafing and minimize the amount of exposed cable.

1. Remove the lid from the cabinet.
   a. Use the #2378 cam lock key to unlock the lid.

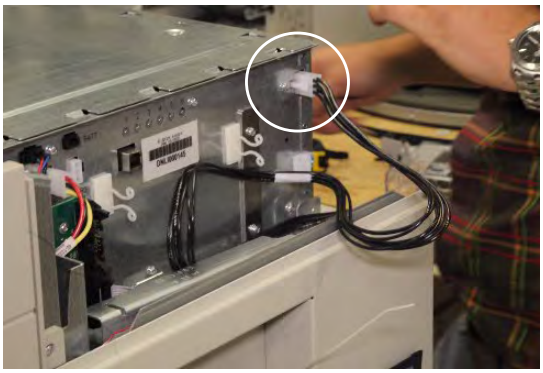
Figure 2-129. Unlocking the lid

b. Rotate the lid up, and lift it from the hooks that hold it.

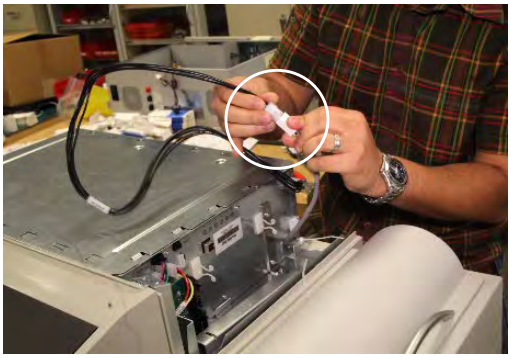
Figure 2-130. Removing the lid

c. Place the lid aside.

2. Connect the ERB adapter cable to the E-box on the back right side.



3. Connect the other end of the adapter cable to the ERB PowerCom cable.



Note: For security-integrity reasons, the PowerCom cable must pass through the plane of the locked area and be connected inside the area covered by the lockable cover. Do not pass the adapter cable through the plane of the locked area and have the connection outside of the locked area.

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4. Secure the PowerCom cable along the side of the E-box with a cable tie.

Figure 2-131. ERB PowerCom cable secured next to E-box

Note: The PowerCom cable must be secured to the sheet metal on the side closest to the E-box to ensure sufficient clearance when the cover is replaced and locked

5. Bundle part of the adapter cable into the P-clip and attach it to the E-box.
   This helps to relieve strain on the connector at the E-box.

Figure 2-132. Adapter cable in P-clip

6. Bundle the rest of the cables and secure them with cable ties to hold them out of the way.

   Do not allow the cabling to chafe or tangle with the Tinnerman tower or any other sheet-metal edges.

Figure 2-133. ERB installed on right side of OmniTT G4 (seen from back)

7. Replace the lid by setting it on the holder hooks and rotating it down.
8. Lock the lid.

Cabling for the OmniRx G4

Connect the ERB to the half-cell cabinet using the same wiring procedures as for the OmniTT and Half-Cell. See "Cabling for the OmniTT G4" on page 2-46

Cabling for the Half-Cell G4

Connect the ERB to the half-cell cabinet using the same wiring procedures as for the OmniTT and OmniRx. See "Cabling for the OmniTT G4" on page 2-46.

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Cabling for the One-, Two-, Three-Cell G4 Cabinets

When a One-, Two-, Three-cell is ordered with an ERB, the ERB adapter cable is attached to the E-box before shipping. In such case, the only step required is to connect the ERB PowerCom cable to the adapter cable on the back of the console.

If the ERB is ordered later, the cables must be installed as follows.

1. Insert a flat head screwdriver in the upper right cutout on the back of the left block-off plate of the console assembly and rock it back and forth until the metal breaks away, leaving an opening for the PowerCom cable.

Figure 2-134. Opening a slot for the ERB cable

If mounting the ERB on the left side of the cabinet, Figure 2-135 shows another possible location to open for the PowerCom cable.

Figure 2-135. Location of PowerCom slot for mounting ERB on left side of cabinet

2. With an assistant, pull the E-box all the way forward on the drawer slides, unlocking the drawer slides to allow extra access.

Note: Take care not to pull the E-box off the slides altogether. Use an assistant to make sure the E-box does not fall.

Figure 2-136. Unlocking drawer slides

3. Connect the ERB adapter cable to the E-box and secure it with a P-clip.

Figure 2-137. ERB adapter cable connected and secured with P-clip

4. Route the adapter cable down through the hole in the frame.

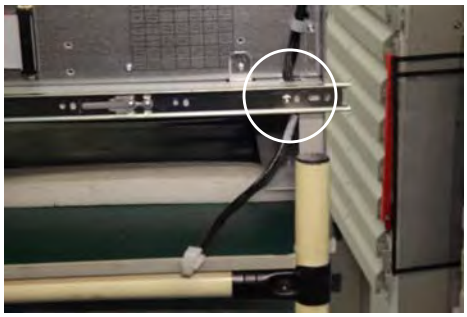

Figure 2-138. Adapter cable routed through frame

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5. Pass the PowerCom cable through the cutout in the rear panel of the E-box.

Figure 2-139. Attaching PowerCom cable and adapter cable

6. Connect the PowerCom cable to the adapter cable.
7. Bundle the adapter cable and secure it with cable ties.
8. Re-lock the drawer tabs and ensure that the drawer slide can open and close without interference.
9. Slide the E-box back into the cabinet.
10. Snap on the black grommet over the PowerCom cable, then squeeze it with pliers to secure it in the cutout.

Installing on the Anesthesia Workstation (AWS G4)

The ERB on the AWS G4 is installed on the right side. The bracket is attached to adjustable mounting bars.

The AWS G4 has two installation heights. The procedure for attaching the ERB is slightly different for each. Typically, the ERB is installed in the upper position. It is installed in the lower position if the AWS has an optional worksurface installed.

Attaching the ERB in the Upper Position

1. Adjust the upper mounting bar on the right side of the AWS G4.

   The top bar should be at least 4-1/2 inches down from the bottom edge of the worksurface.

   a. Use a 1/4" Allen key to loosen the 5/16" set screw on both ends of the bar.

   b. Slide the bar into position.

   c. Retighten the screws.

2. Attach the bracket to the upper bar using two 8/32 flat head screws.

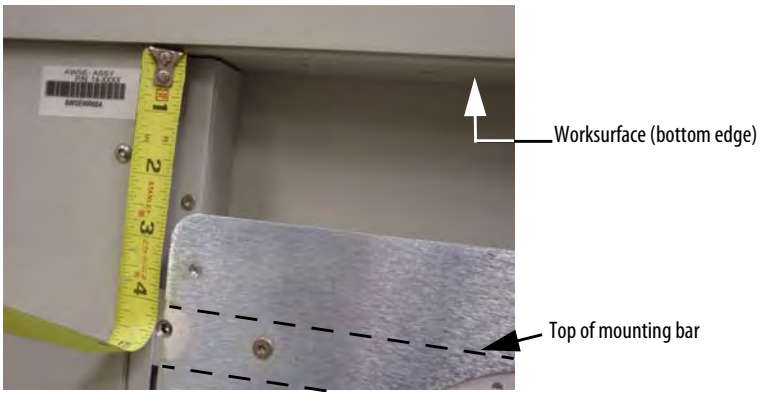

Figure 2-140. ERB bracket attached to upper mounting bar at height limit

3. Move the lower bar into position.
4. Attach the bracket to the lower bar using two 8/32 flat head screws.

Figure 2-141. ERB Bracket mounting screw positions

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5. Open the ERB access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid.

Figure 2-142. Access door and cam lock keys

6. Set the ERB on the bracket ledge, aligning the pins on the ledge to the holes in the bottom of the ERB.

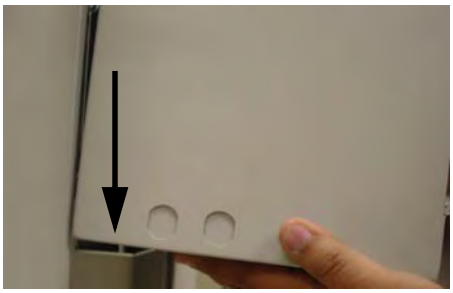

Figure 2-143. ERB being set onto bracket ledge pins

7. Attach the ERB to the bracket using four 8-32 button hd torx screws.

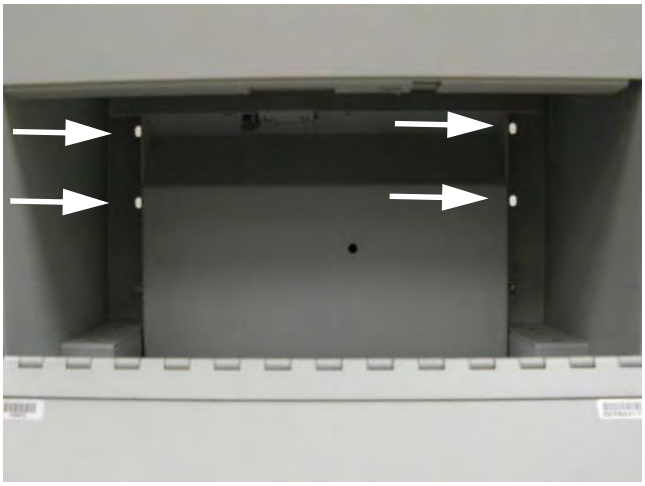

Figure 2-144. ERB attachment holes

8. Close and lock the ERB access door.

Attaching the ERB in the Lower Position

1. Attach the bracket to the upper and lower mounting bars using four 8/32 flat head screws.
2. Slide the assembly up to align the top of the bracket with the screws on the side of the AWS.

Figure 2-145. Alignment of bracket in lower position

3. Use a 1/4" Allen key to tighten the 5/16" set screws on both ends of each of the mounting bars.
4. Open the ERB access door with both keys. Use key #2204 to unlock the access door and key #2202 to override the solenoid.

Figure 2-146. Access door and cam lock keys

5. Set the ERB on the bracket ledge, aligning the pins on the ledge to the holes in the bottom of the ERB.

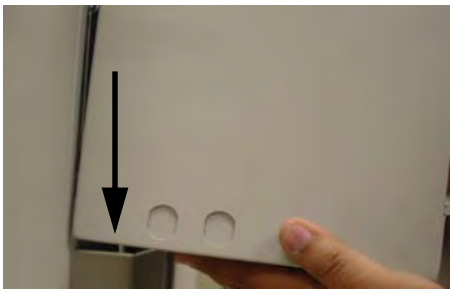

Figure 2-147. ERB being set onto bracket ledge pins

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6. Attach the ERB to the bracket using four 8-32 button hd torx screws.

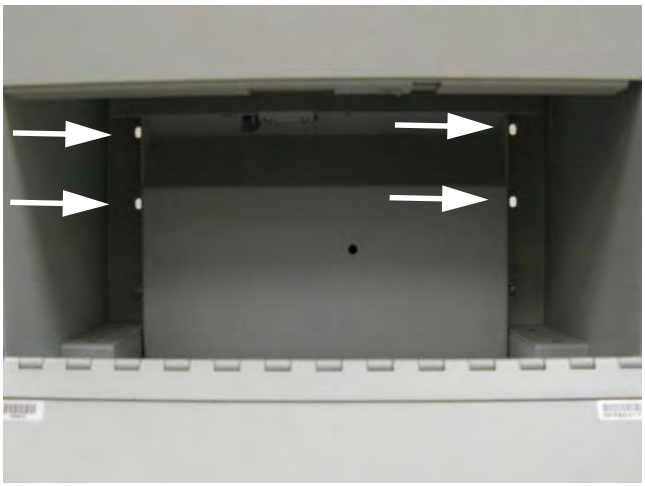

Figure 2-148. ERB attachment holes

7. Close and lock the ERB access door.

Cabling for the AWS G4

Cabling for the AWS G4 varies according to the configuration of the cabinet. When the ERB is attached in the upper position, the cable is passed through a round hole in the top of the chassis. In some cabinets with the ERB in the lower position, it is necessary to route the cable up the outside back of the cabinet and pass it through a slot onto the top of the chassis. In some cabinets with the ERB in the lower position, it is possible to pass the cable through an opening on the lower side and up through the chassis to the top.

Cabling for the AWS G4 with the ERB Mounted in the Upper Position

1. Remove the worksurface from the AWS G4.
   a. Move the monitor out of the way.
   b. Use the cam lock key #2378 to unlock the worksurface.
   c. Remove the two front side screws.

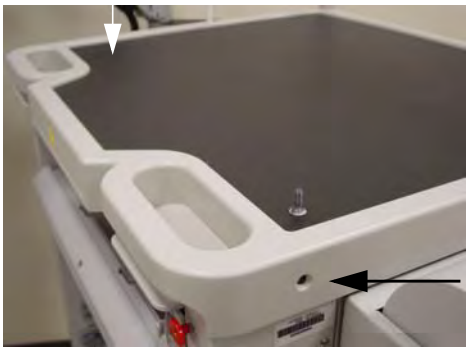

Figure 2-149. AWS G4 worksurface with one of two screws removed

   d. Slide the worksurface forward, then lift it up and away. Set it aside.

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2. Remove the cover from the E-box.
   a. Use cam lock key #2378 to unlock the E-box cover on the left (monitor) side of the chassis.

Figure 2-150. Unlocking the E-box cover

   b. Open the printer door and rotate the lever on the back wall.

Figure 2-151. Opening printer door

Figure 2-152. Rotated lever

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c. Tilt the cover back and pull it off.

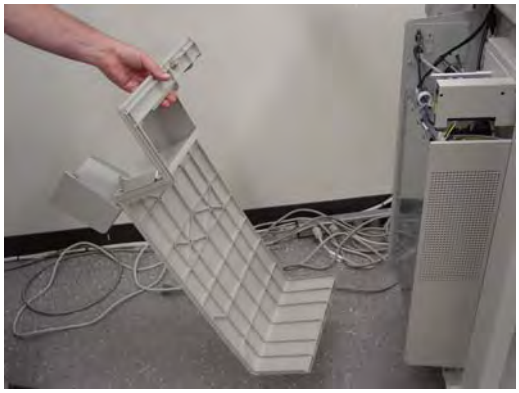

Figure 2-153. Removing E-box cover

3. Thread the ERB PowerCom cable up behind the ERB and through the round hole in the top of the chassis. Install a rubber grommet to prevent the cable from chafing.

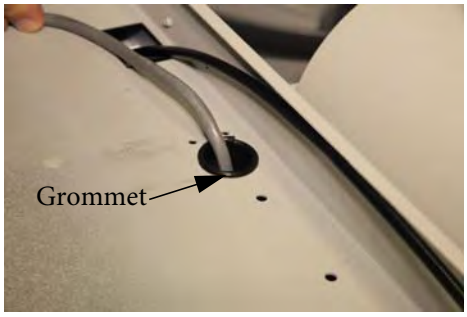

Figure 2-154. ERB cable routed onto top of chassis

4. Snip the plastic edge guard and fit it into the E-box slot in the top of the chassis to protect the cables.

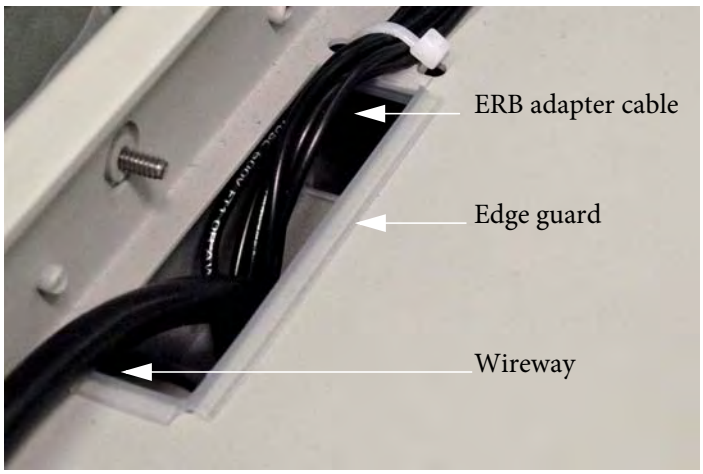

Figure 2-155. E-box slot lined to protect cable

5. Route the ERB PowerCom cable and adapter cable across the top of the chassis and into the slot for the E-box.

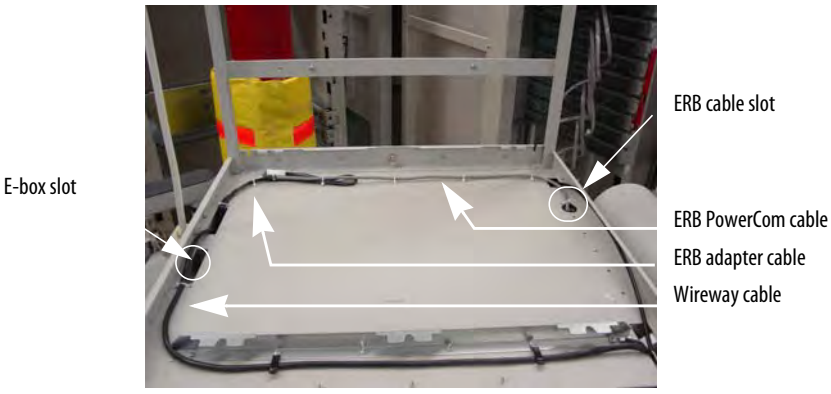

Figure 2-156. ERB cable routed into E-box slot

6. Bundle excess cable lengths and secure the cables to the cover with cable ties, using the anchors in the chassis.
7. Connect the ERB adapter cable into the E-box.

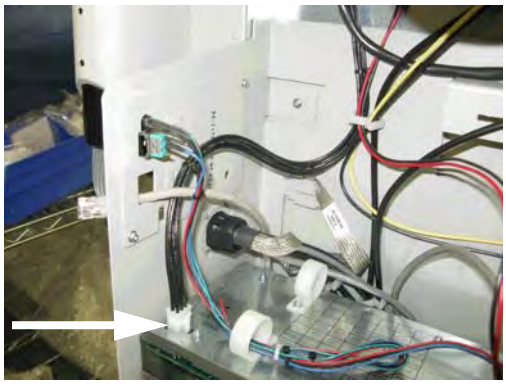

Figure 2-157. ERB cable connected to E-box

8. Close and lock the side cover.
   a. Insert the bottom edge of the cover into the slot below the E-box.

Figure 2-158. Reinstalling E-box cover

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b. Tilt the cover up and into place

Figure 2-159. Tilting cover back into position

c. Rotate the lever back into the locked position.

Figure 2-160. Lever in locked position

d. Close the printer cover.
e. Close and lock the E-box cover.

9. Put the worksurface on and slide it closed.
10. Screw the worksurface into place.
11. Lock the worksurface.

Cabling for the AWS G4 with the ERB Mounted in the Lower Position

1. Remove the worksurface from the AWS G4.
   a. Move the monitor out of the way.
   b. Use the cam lock key #2378 to unlock the worksurface.
   c. Remove the two front side screws.

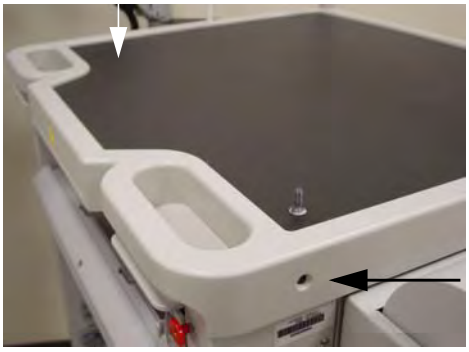

Figure 2-161. AWS G4 worksurface with one of two screws removed

   d. Pull the worksurface forward, then lift it up and away. Set it aside.
2. Remove the cover from the E-box.
   a. Use cam lock key #2378 to unlock the E-box cover on the left side of the chassis.

Figure 2-162. Unlocking the E-box cover

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b. Open the printer door and rotate the lever on the back wall.

Figure 2-163. Opening printer door

Figure 2-164. Rotated lever

c. Tilt the cover back and pull it off.

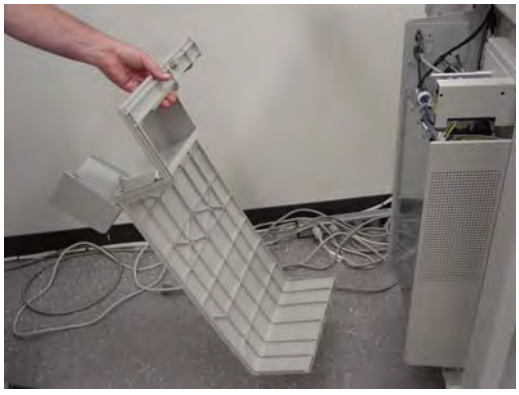

Figure 2-165. Removing E-box cover

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3. Check the frame of the AWS just above the right side of the ERB. If it has a 1” hole in it, you can route the ERB PowerCom cable through that hole and up through the chassis to the top. It will exit through the same rectangular opening as the wireway cable. Install a rubber grommet in the hole to prevent the cable from chafing

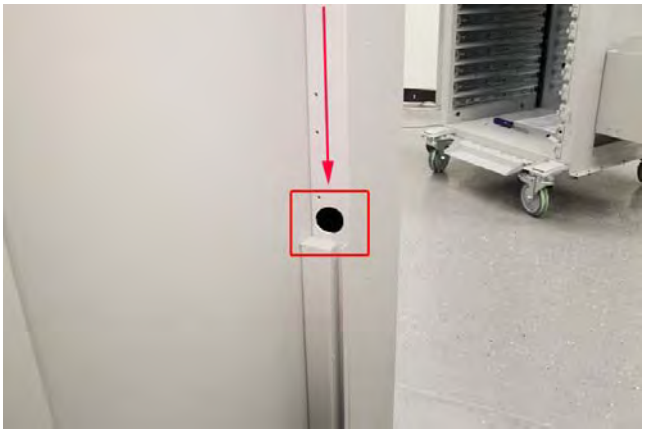

Figure 2-166. Hole in AWS G4 frame for routing ERB PowerCom cable

4. Snip the plastic edge guard and fit it into the slots in the top of the chassis to protect the cables.

   Line both the rectangular slots: where the cable enters from the chassis, and the E-box slot where the cable exits.

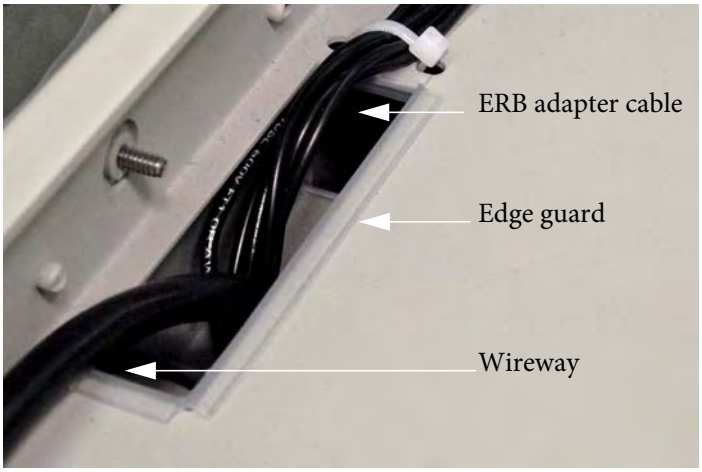

Figure 2-167. Chassis opening lined to protect cable

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5. If there is no hole in the frame, route the ERB PowerCom cable up behind the ERB and through the slot in the top of the back panel.

Figure 2-168. ERB cable routed behind AWS G4

6. Connect the ERB PowerCom cable to the ERB adapter cable.
7. Route the cable across the top of the chassis and into the slot for the E-box.

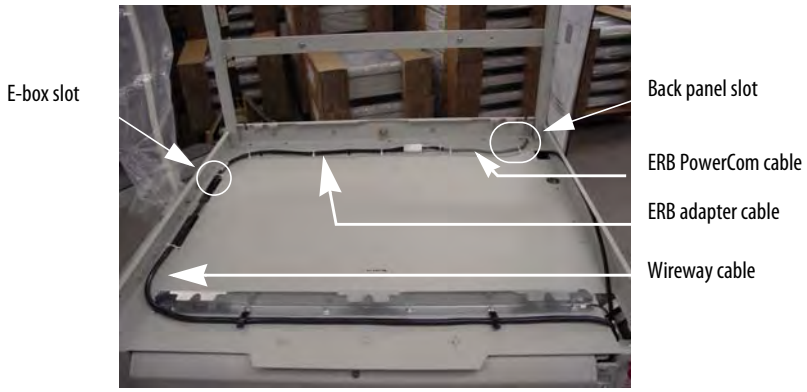

Figure 2-169. ERB cable running across top of AWS chassis

8. Secure the cables to the cover with cable ties, using the anchors in the cover.
9. Connect the adapter cable into the E-box.

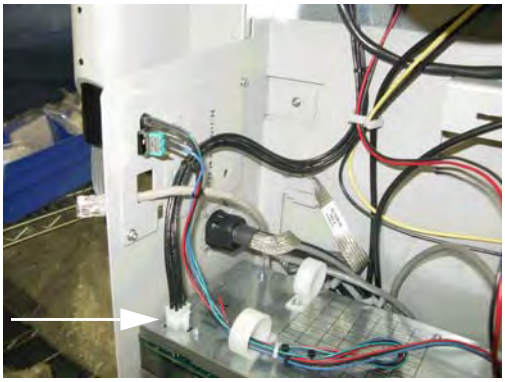

Figure 2-170. ERB adapter cable connected to E-box

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10. Close and lock the side cover.
    a. Insert the bottom edge of the cover into the slot below the E-box.

Figure 2-171. Reinstalling E-box cover

    b. Tilt the cover up and into place

Figure 2-172. Tilting cover back into position

    c. Rotate the lever back into the locked position.

Figure 2-173. Lever in locked position

    d. Close the printer cover.
    e. Close and lock the E-box cover.

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11. Put the worksurface on and slide it closed.
12. Screw the worksurface into place.
13. Lock the worksurface.

Wall or Table Mount

The facility will determine and prepare the location for the wall or table mount. The facility should use the full-size drill template to drill mounting holes through the wall or table.

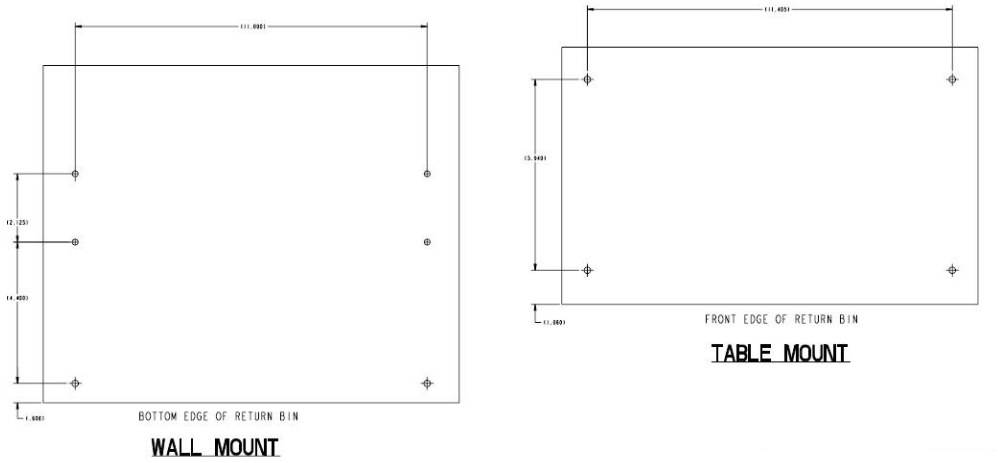

Figure 2-174. Drill Templates

1. Open the access door to fasten the ERB to the wall or table.
2. Align screw holes to holes in the wall/table.
3. Fasten the ERB to the wall or table with #8 fasteners.
4. Close and lock the access door.
5. Refer to the appropriate section above for cabling instructions depending on the type of cabinet to which the ERB is to be connected.

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Daisy Chains

Another ERB or up to 10 FlexLocks can be daisy-chained (cabled) from an ERB—first from the ERB, then from each other. See *FlexLock Installation and Configuration Guide* (PN 60-3002) for details.

A daisy chain can comprise up to 75 feet (22.86 meters) of cabling without a relay.

When an ERB is daisy-chained, perform the following procedure to maintain the best performance.

1. Open the return door of the ERB to remove the PCB/solenoid metal mount.
   a. Push the pawl of the solenoid to the left.

Figure 2-175. Accessing the pawl

   b. Lift the top handle to open the return door.

Figure 2-176. Opening the return door

2. Remove the PCB/solenoid metal plate by loosening the two nuts on either side of the plate, using a 5/16” nut driver.

Figure 2-177. Nut locations

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Note: Do not completely remove the nuts, one full turn should be enough.

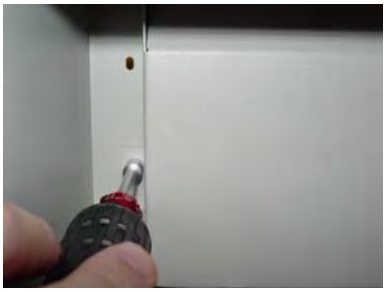

Figure 2-178. Loosening the metal plate nuts

3. Maneuver the metal plate around the sheet metal tabs and nuts. Remove the lower rim first.

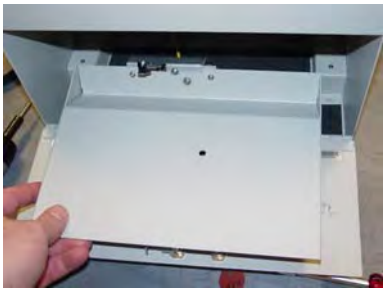

Figure 2-179. Removing the metal plate

4. Remove the RFI cover that is under the PCB/solenoid mount.
   a. Loosen the two hex nuts on either side of the internal cover using a 5/16” nut driver or socket.

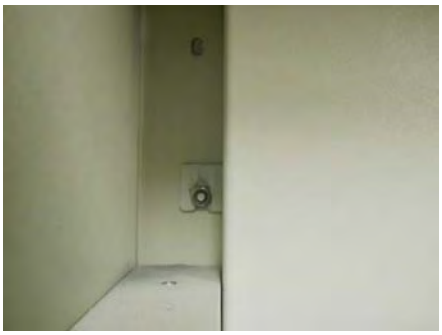

Figure 2-180. Loosening hex nuts

   b. Disconnect the yellow solenoid cable for convenience.

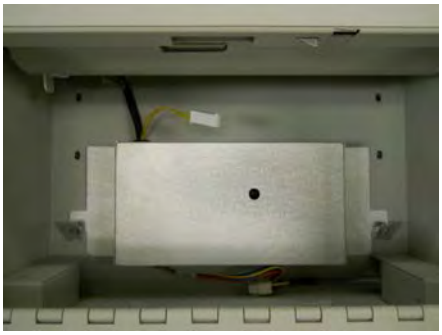

Figure 2-181. Disconnecting solenoid cable

   c. Lift the RFI cover off the two studs. Slide the wiring rubber grommets down the two keyhole slots and remove the RFI cover completely.

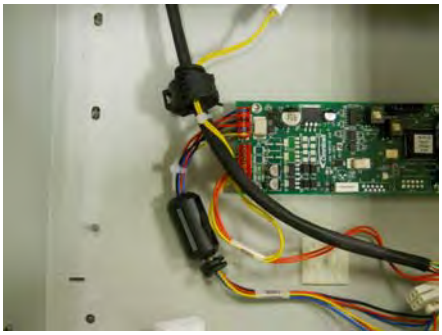

Figure 2-182. PC board with RFI cover removed

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5. Set the S1 slide switch to Not Terminated (not labeled on the board) because the ERB will be in the middle of the daisy chain configuration. The S2 slide switch should already be set to ERB.

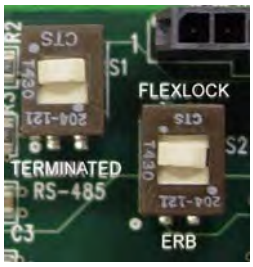

Figure 2-183. Setting the switches

6. Reinstall the RFI cover.
   a. Slide the two grommets back into the keyhole openings on the top and bottom of the RFI cover. Hold the RFI cover over the studs against the rear wall. Make sure wires are not pinched.

Figure 2-184. RFI rubber grommet

   b. Attach the cable from the second ERB or FlexLock to the 6 position connector in the ERB. Secure the cable through the double D holes using the grommets provided.

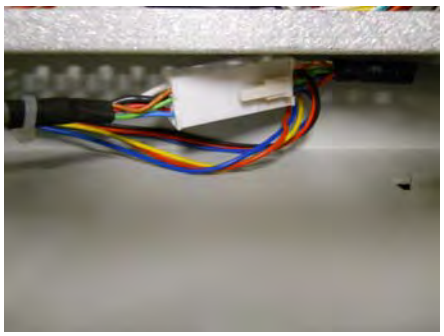

Figure 2-185. Six position connector

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c. Reconnect the 2 position yellow wire solenoid cable, and slide the internal cover over the studs.

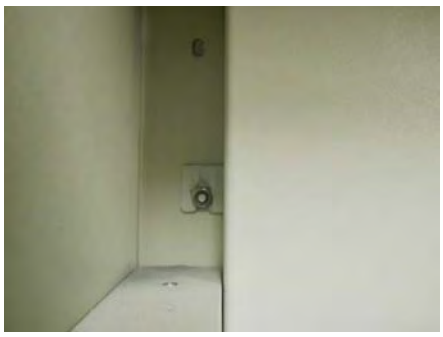

Figure 2-186. Sliding RFI over studs

d. Tighten the hex nuts using the 5/16” nut driver or socket.

7. Reinstall the PCB/solenoid mount with the solenoid inserted first into the ERB housing, clearing the return door. Keep the external return door open while reinstalling the mount plate.

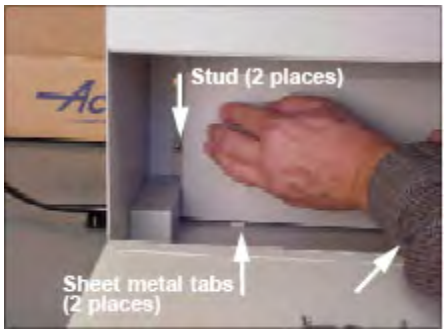

Figure 2-187. Installing the PCB/solenoid mount

8. Maneuver the plate onto the two studs behind the nuts and position the bottom rim behind the sheet metal tabs. Be careful not to pinch the wires behind the plate.
9. Replace the PCB/solenoid metal plate, then tighten the two nuts on either side of the plate, using a 5/16” nut driver.
10. Close the return door.
11. Close and lock the access door with the cam keys.

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Implementation

Power Up

1. Connect the power cable to the cabinet.
2. Turn on the cabinet.

Configuration and Test

The following configuration option is listed in the Hardware configuration menu on the Color Touch screen.

Menu Name	External Return Bin
Description	Indicates that an External Return Bin is present and in use. When set to Yes, all other return bins will be ignored.
Values	Yes/No
Default	No

1. Set this option to **Yes** to use the ERB.
2. Test the ERB.
   a. Perform the return function in the application.
   b. Open and close the ERB door.
   c. Check the Color Touch screen for error or status messages.
3. Give the pharmacist both ERB keys.

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Service

This chapter covers the replacement of External Return Bin (ERB) components.

Note: Check the PCB light through the metal plate before replacing the board. A green light indicates proper operation. A red light or no light indicates there is problem.

Preparation

1. Perform a graceful shutdown of the cabinet.
2. Unplug the cabinet power cable.
3. Remove the contents of the ERB before doing service.

Important: A pharmacist or other designated person must be present during this process.

4. [Optional] Remove the ERB from its mounting.

Return Door Solenoid

1. Open the access door with keys #2204 (unlocks access door) and #2202 (overrides access door solenoid).
2. Open the return door by pushing the pawl of the solenoid to the left and lifting the handle.

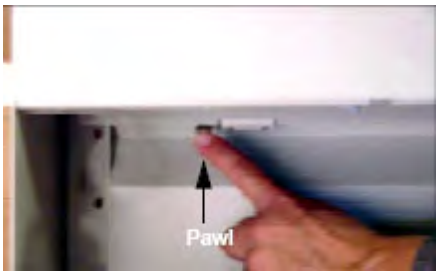

Figure 3-1. Pushing the pawl

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3. Remove the PCB/solenoid metal plate by loosening the two nuts on either side of the plate, using a 5/16" nut driver. Do not completely remove the nuts.

Figure 3-2. Loosening the nuts holding the metal plate

4. Maneuver the metal mount around the sheet metal tabs and nuts until the lower rim can exit the housing first. The solenoid is connected by a length of yellow wire long enough to allow pulling the PCB/solenoid metal plate out of the ERB.

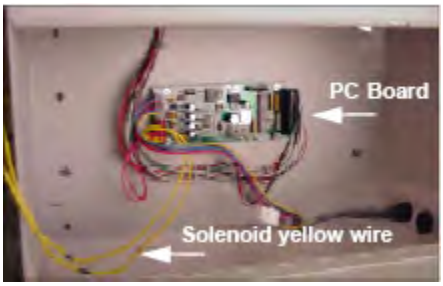

Figure 3-3. Removing the metal mount

5. Remove the two 6-32 PH Torx screws using a Torx screwdriver #10 and set them aside.

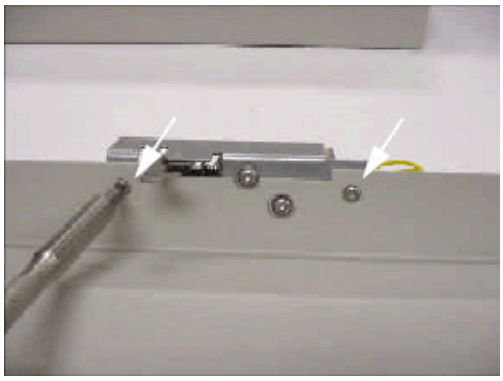

Figure 3-4. Removing the solenoid screws

6. Unplug the solenoid at the 2-pin Molex connector.
7. Remove the defective solenoid and replace it.
8. Plug in the 2-pin Molex connector.

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9. Insert and tighten the 6-32 PH Torx screws.
10. Maneuver the metal mount back into position.
11. Tighten the two nuts on either side of the plate.
12. Close the return door.
13. Lock up the ERB.

Return Door Handle

1. Open the access door with keys #2204 (unlocks access door) and #2202 (overrides access door solenoid).
2. Open the return door by pushing the pawl of the solenoid to the left and lifting the handle.

Figure 3-5. Pushing the pawl; return door handle

3. Remove the two M4x6mm FH Phillips screws securing the handle spacer with a Phillips screwdriver #2, then set the old handle aside.

Figure 3-6. Handle screw locations

4. Set the new return door handle in place.
5. Secure the handle with the two Phillips screws.
6. Close the return door.
7. Lock up the ERB.

Note: The counter sink on the handle spacer must be aligned with the flat head screws for the lid to close properly.

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Printed Circuit Board (PCB)

1. Open the access door with keys #2204 (unlocks access door) and #2202 (overrides access door solenoid).
2. Open the return door by pushing the pawl of the solenoid to the left and lifting the handle.

Figure 3-7. Pushing the pawl

3. Remove the PCB/solenoid metal plate by loosening the two nuts on either side of the plate, using a 5/16" nut driver. Do not completely remove the nuts.

Figure 3-8. Loosening the nuts holding the metal plate

4. Maneuver the metal mount around the sheet metal tabs and nuts until the lower rim can exit the housing first. The solenoid is connected by a length of yellow wire long enough to allow pulling the PCB/solenoid metal plate out of the ERB.

Figure 3-9. Removing the metal mount

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5. Disconnect J1, J2, and J3 connectors.

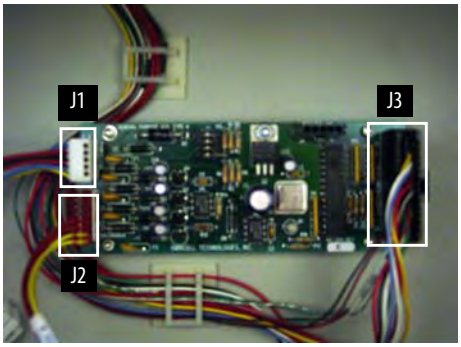

Figure 3-10. J connector locations

6. Remove the four 4-40 SOC screws.
7. Replace the PCB.

Figure 3-11. Screw locations

8. Secure the new PCB with the 4-40 SOC screws.
9. Maneuver the metal mount back into position.
10. Tighten the two nuts on either side of the plate.
11. Close the return door.
12. Lock up the ERB.

Cam Locks

1. Open the access door with keys #2204 (unlocks access door) and #2202 (overrides access door solenoid).

Figure 3-12. Key lock locations

2. Remove the M5 nylock nuts with a 5/16" nut driver.

Figure 3-13. Removing nylock nuts

3. Remove the pawls.

Figure 3-14. Removing pawls

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4. Unscrew the hex nuts with a wrench.

Figure 3-15. Unscrewing the hex nuts

5. Remove the defective lock(s).

Figure 3-16. Removing the cam locks

6. Insert the new cam locks into the double D punch (holes) on the sheet metal.

Figure 3-17. Holes for cam lock

7. Secure the cam locks with the hex nut.
8. Check the flange positions.

Figure 3-18. Flange stop positions

9. Install the pawls. Secure them with the M5 nylock nuts.

10. Check the orientation of the key notches.

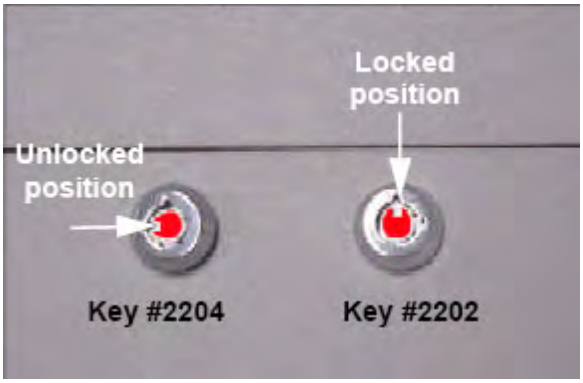

Figure 3-19. Correct orientation of key notches after cam locks are replaced

11. Test the positions of the cam lock plate. Key #2202 remains fixed in the lock when the lock plate is in the unlocked position.

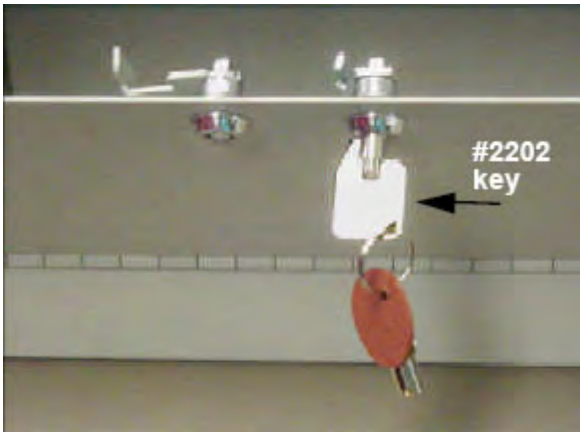

Figure 3-20. Cam lock plate positions

12. Close the access door and lock the ERB.

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Access Door

The access door solenoid may be difficult to reach inside the ERB unit. The solenoid is located inside the return door, which makes it hard to visually see the parts.

1. Open the access door with keys #2204 (unlocks access door) and #2202 (overrides access door solenoid).
2. Open the return door by pushing the pawl of the solenoid to the left and lifting the handle.

Figure 3-21. Pushing the pawl and opening the return door

3. Remove the three 4-40 x 1/4" FH undercut Torx screws from the underside of the LED mount bracket.

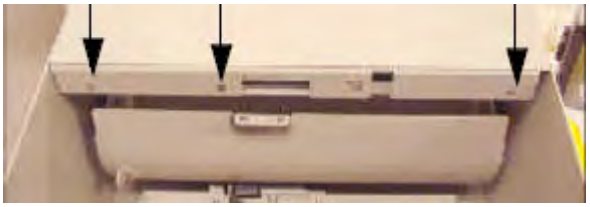

Figure 3-22. Removing the LED mount bracket screws

4. Remove the two #4 hex nuts securing the bracket LED mount from the inside of the ERB with a 1/4" nut driver or socket.

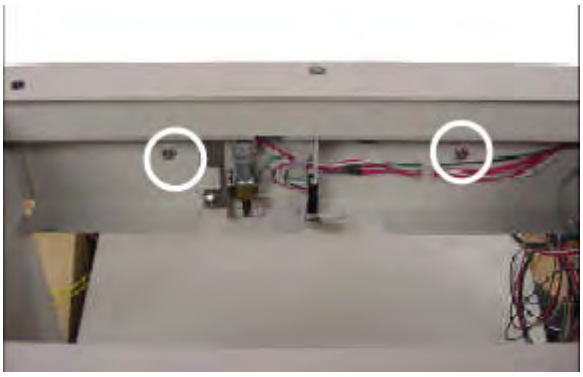

Figure 3-23. Hex nut locations

5. Pull out the LED bracket mount carefully.

Figure 3-24. Removing LED bracket mount

6. Unscrew the two #4 hex nuts that secure the solenoid with a 1/4" nut driver and set them aside

Figure 3-25. Removing the solenoid #4 hex nuts

7. Unplug the 2-pin Molex connector circled in Figure 3-26.
8. Remove the solenoid and replace it with the new solenoid.

Figure 3-26. Replacing the solenoid

9. Attach the 2-pin Molex connector for the new solenoid.

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10. Secure the solenoid with the two #4 hex nuts with a 1/4" nut driver.
11. Route the cables carefully through the plate notch in the upper right corner. The cables are tied with a cable tie.

Figure 3-27. Wire routing

12. Re-install the LED bracket mount in the ERB carefully.

Figure 3-28. Re-installing the LED bracket

13. Locate the two studs on the ERB and align them to the bracket holes.

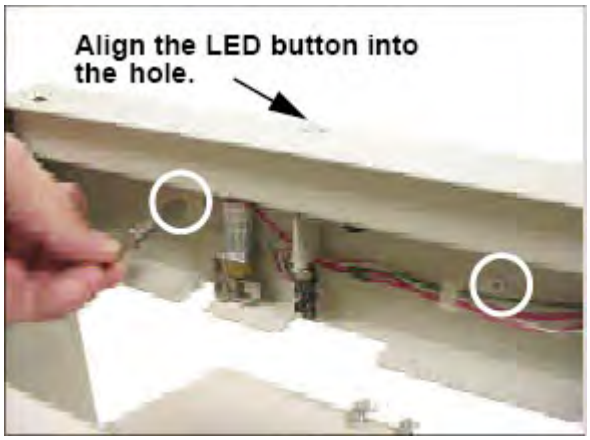

Figure 3-29. Tightening the inside #4 hex nuts

14. Install and tighten the #4 nuts that secure the bracket LED mount from the inside of the ERB with a 1/4" nut driver or socket.
15. Re-install the three 4-40 x 1/4" FH undercut Torx screws on the underside of the LED mount bracket.

Figure 3-30. Re-installing the screws

16. Give the pharmacist both keys.

Cable Assembly

Uninstall cable assemblies by referring to the steps by cabinet type. Perform the disconnection and removal of cables by doing the steps in reverse order.

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Appendix A: Parts

Part Link Table

This table links the part mentioned in the taxt to the Agile description and part number.

Part #	Part Name	Agile Description	Where Used
15-7088-20	solenoid	ASSY, BIN SOLENOID, LONG STROKE, DRAWER, ER	Return Door Solenoid Access Door
40-3013	PCB	PCB ASSY, GEN. PURPOSE AUX,FLEXLOCK, ERB	Printed Circuit Board (PCB)
42-1336-01 42-1336-02	adapter cable ERB adapter cable assembly ERB PC4 Adapter Cable Assembly	CABLEASSY,ERB,FLEXLOCK,PC4,ADAPTER,CTPC,RX,AWS CABLE ASSY,ERB,FLEXLOCK,PC4,ADAPTER,AWS-E	Anesthesia Workstation (AWS) G3 Cabling for the AWS G4
42-7052	AUX cable connector; cable; AUX cable assembly ERB retrofit cable assembly	CABLE ASSY, RETROFIT-AUX, ERB	Cabling for the OmniTT G3 Cabling for the AWS G3
42-7053	power - communications cable 4 ft. cable assembly ERB cable assembly Molex connector ,ERB cable connector (white) ERB power/comm cable	CABLE, ASSY, PWR/COMM, 12	ERB Components Cable Assembly Configuration Anesthesia Workstation (AWS) G3
42-7058	AUX Connector retrofit AUX cable assembly	CABLE, ASSY, RETROFIT, AUX, CT, ERB	ERB Components Anesthesia Workstation (AWS) G3
50-2102 51-2057 51-2059	transport handle OmniRx transport handle	HANDLE,TRANSPORT,FRAME HANDLE,TRANSPORT,INTERNAL OMNI,2 HANDLE,TRANSPORT,HALF-CELL	OmniTT OmniRx Half-Cell
51-7042	Adjustable mounting bar	BAR,HOLY,ACCESSORY RACK ANESTHESIA	Attaching the ERB in the Upper Position
53-2116	AWS-E back bracket	PANEL, UPPER REAR, AWS-E	Attaching the ERB in the Upper Position
53-2119	ERB mount bracket	BRACKET, MOUNT, ERB, RH/LH, AWS-E	Attaching the ERB in the Upper Position
53-2135	RFI cover	COVER, ERB PC BOARD, RETROFIT	
53-7144	return door	DOOR, RETURN, ERB	ERB Components
53-7145	access door	HOUSING ASSY, ERB	ERB Components

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Part #	Part Name	Agile Description	Where Used
53-7146	PCB/solenoid metal mount PCB/solenoid metal plate	BKT, SOLENOID, MOUNT, ERB	Cable Assembly Configuration Return Door Solenoid Printed Circuit Board (PCB)
53-7147	PCB/solenoid plate	BRACKET, STRIKE, PLATE, ERB	Cable Assembly Configuration Return Door Solenoid Printed Circuit Board (PCB)
53-7149	I/O cover plates	BKT, I/O, SHIELD, ERB	Cable Assembly Configuration Anesthesia Workstation (AWS) G3
53-7152 53-7157 53-7161	mounting brackets mounting plate	BKT, HALF-CELL, MOUNT, ERB BKT, MOUNT, 1,2,3-CELL, ERB MOUNT, OMNIRX, ERB	Mounting Brackets One-, Two-, and Three-Cell Cabinets OmniRx
53-7156	metal retainer; metal retaining bracket	BRACKET, AUX CUTOUT, ERB	ERB Components Anesthesia Workstation (AWS) G3
53-7159	AWS bracket	BKT, ANESTHESIA, MOUNT, ERB	Anesthesia Workstation (AWS) G3
53-7264	LED bracket mount	BKT, LED, MOUNT, ERB, COST REDUCTION	Access Door
56-7019	foam pad	LINER, FOAM, PAD, ERB	ERB Components
81-1302	corrugated slit tubing	TUBING,CORRUGATED,SLIT,ID=0.650",OD=0.816"	Cabling for the OmniTT G4
91-2051 91-2052	strain relief grommet	STRAIN RELIEF, HEYCO, #1244 STRAIN RELIEF, HEYCO, #1207	ERB Components Cable Assembly Configuration Anesthesia Workstation (AWS) G3
91-2053	plug cover	PLUG, HEYCO, #2503	ERB Components Cable Assembly Configuration

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Part #	Part Name	Agile Description	Where Used
92-1000 92-1002 92-1004 92-1049	keys, pawls, lock	CAMLOCK, #2036 CAM LOCK, #2202 CAM LOCK, #2204 CAM LOCK #2378	ERB Components Cable Assembly Configuration OmniRx OmniTT Half-Cell Anesthesia Workstation (AWS) G3 Return Door Solenoid Printed Circuit Board (PCB) Cam Locks Access Door
92-4000	return door handle	HANDLE,DOOR,HAFELE	Return Door Handle
94-6005	#4 hex nuts	NUT, HEX, 4-40, SS	Access Door
94-6012	#8-32 x 1/4" flat head cap screws	SCREW, SHCS, 8-32 X 1/4, SS	Half-Cell Anesthesia Workstation (AWS) G3
94-6060	#8 hex nuts #8 fasteners	NUT, HEX, 8-32, SS	OmniTT OmniRx Half-Cell Anesthesia Workstation (AWS) G3 Wall or Table Mount
94-6063	4-40 SOC screws	SCREW, SHCS, 4-40 X 1/4, SS	Printed Circuit Board (PCB)
94-6090 94-6207	Kurly lock	CABLE,MOUNT,KURLY,LOK,RICHCO KLB-350A-RT CABLE,MOUNT,KURLY,LOK,RICHCO SKL45-250	Anesthesia Workstation (AWS) G3
94-6095	handle screws OmniRx handle screws #8-32 x 3/8" socket head cap screws	SCREW, SHCS, 8-32 X 3/8, SS	OmniTT OmniRx OmniRx Anesthesia Workstation (AWS) G3
94-6126	M5 nylock nuts hex nuts	NUT, HEX, M5, NYLOCK	Cam Locks
94-6132	8-32 x 3/16 buttonhead screws	SCREW,BH,TORX,8-32,X,3/16,SS	Attaching the ERB to the AWS G3
94-6138	6-32 PH Torx screws	SCREW, BH TORX, 6-32 X 1/4, SS	Return Door Solenoid Anesthesia Workstation (AWS) G3

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Part #	Part Name	Agile Description	Where Used
94-6202	8-32 button hd torx screws	SCREW,BH,TORX,8-32,X,1/2,SS	Anesthesia Workstation (AWS) G3
94-6233	4-40 x 1/4" FH undercut Torx screws 4-40 flat head fasteners	SCREW, FH, TORX, 4-40 X 3/16, PATCH, SS, UNDERCUT	Access Door Cable Assembly Configuration Anesthesia Workstation (AWS) G3
94-6234	M4x6mm FH Phillips screws	SCREW, FH, PHILLIPS, M4X6, MM, PATCH, SS	Return Door Handle Anesthesia Workstation (AWS) G3
94-6241	5/16" set screw	SET,SCREW,5/16-24,X,5/16,SS	Anesthesia Workstation (AWS) G3
94-6413	1/4-20 x 3/4" screw	SCREW, FLAT HD, 1/4-20 X .75, GRAY PAINT	Anesthesia Workstation (AWS) G3
95-6007	cable ties	CABLE TIE, 4 IN.	Anesthesia Workstation (AWS) G3

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ERB Kits

The following kits are used for installation and/or service.

Table A-1. ERB Parts (1 of 4)

Kit #	Part #	Item Description	Notes	Qty
20-6021		ERB INSTALLATION KIT		-
	42-7052	CABLE ASSY, RETROFIT-AUX, ERB	mounts to ERB	1
	42-7053	CABLE, ASSY, PWR/COMM, 12		1
	51-7034	HANDLE, OMNITT/RX, MOUNT, ERB		1
	51-7035	HANDLE, 1,2,3-CELL, MOUNT, ERB		1
	53-7152	BKT, HALF-CELL, MOUNT, ERB		1
	53-7156	BRACKET, AUX CUTOUT, ERB	mounts to host cabinet	1
	53-7157	BKT, MOUNT, 1,2,3-CELL, ERB		1
	53-7159	BKT, ANESTHESIA, MOUNT, ERB		1
	53-7161	MOUNT, OMNIRX, ERB		1
	91-2051	STRAIN RELIEF, HEYCO, #1244	mounts to ERB	1
	91-2052	STRAIN RELIEF, HEYCO, #1207	mounts to host cabinet	1
	94-6060	NUT, HEX, 8-32, SS		8
	94-6095	SCREW, SHCS, 8-32 X 3/8, SS		4
	94-6132	SCREW, BH, TORX, 8-32 X 3/16, SS		6
	94-6151	SCREW, FH, TORX, 8-32 X 1/4, SS, T15		6
	94-6203	SCREW, BH, TORX, 8-32 X 7/8, SS		4
	95-6007	CABLE TIE, 4 IN..		4
20-6097		ERB INSTALLATION KIT (for tall cabinets)		
	42-7052	CABLE,ASSY,RETROFIT,AUX,ERB		1
	53-7156	BKT,AUX,CUTOUT,ERB		1
	53-7157	BKT,MOUNT,1,2,3-CELL,ERB		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	91-2052	STRAIN,RELIEF,HEYCO,1207		1
	94-6060	NUT,HEX,8-32,SS		8
	94-6095	SCREW,SHCS,8-32,X,3/8,SS		4
	94-6132	SCREW,BH,TORX,8-32,X,3/16,SS		6
	95-6007	CABLE,TIE,4,IN.		4
20-6098		ERB INSTALLATION KIT (for OmniTT)		
	42-7052	CABLE,ASSY,RETROFIT,AUX,ERB		1
	53-7156	BKT,AUX,CUTOUT,ERB		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	91-2052	STRAIN,RELIEF,HEYCO,1207		1
	94-6060	NUT,HEX,8-32,SS		8
	94-6095	SCREW,SHCS,8-32,X,3/8,SS		4
	94-6132	SCREW,BH,TORX,8-32,X,3/16,SS		6

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Table A-1. ERB Parts (2 of 4)

Kit #	Part #	Item Description	Notes	Qty
20-6098 continued	95-6007	CABLE,TIE,4,IN.		4
20-6099		ERB INSTALLATION KIT (for OmniRx)		
	42-7052	CABLE,ASSY,RETROFIT,AUX,ERB		1
	53-7156	BKT,AUX,CUTOUT,ERB		1
	53-7161	MOUNT,OMNIRX,ERB		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	91-2052	STRAIN,RELIEF,HEYCO,1207		1
	94-6060	NUT,HEX,8-32,SS		8
	94-6095	SCREW,SHCS,8-32,X,3/8,SS		4
	94-6132	SCREW,BH,TORX,8-32,X,3/16,SS		6
	95-6007	CABLE,TIE,4,IN.		4
20-6100		ERB INSTALLATION KIT (for 1/2 cell)		
	42-7052	CABLE,ASSY,RETROFIT,AUX,ERB		1
	53-7152	BKT,HALF-CELL,MOUNT,ERB		1
	53-7156	BKT,AUX,CUTOUT,ERB		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	91-2052	STRAIN,RELIEF,HEYCO,1207		1
	94-6060	NUT,HEX,8-32,SS		8
	94-6132	SCREW,BH,TORX,8-32,X,3/16,SS		6
	94-6151	SCREW,FH,TORX,8-32,X,1/4,SS T15		6
	95-6007	CABLE,TIE,4,IN.		4
20-6104		ERB INSTALLATION KIT (for AWS-G4)		
	53-1058	BRKT, MOUNT, ERB, AWS-E, W7		1
	94-6181	SCREW,FH,TORX,8-32,X,3/8,SS NYLON,PATCH		4
	94-6202	SCREW,BH,TORX,8-32,X,1/2,SS		4
20-6105		ERB FACTORY INSTALLATION KIT (for tall cabinets)		
	53-7157	BKT,MOUNT,1,2,3-CELL,ERB		1
	94-6060	NUT,HEX,8-32,SS		2
	94-6203	SCREW,BH,TORX,8-32,X,7/8,SS		2
20-6108		ERB/FLEXLOCK INSTALLATION KIT (for G4 tall cabinets)		
	42-1336-01	CABLE ASSY,ERB,FLEXLOCK,PC4,ADAPTER,CTPC,RX,AWS		1
	91-1006	CLAMP,CABLE,NYLON,.375		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	94-7421-08	SCREW,SEMS,PH,TORX,M3X0.5X8		1
	95-6007	CABLE,TIE,4,IN.		2

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Table A-1. ERB Parts (3 of 4)

Kit #	Part #	Item Description	Notes	Qty
20-6109		ERB/FLEXLOCK, G4 CONSOLE INSTALLATION KIT		
	42-1336-02	CABLE ASSY,ERB,FLEXLOCK,PC4,ADAPTER,CTPC,RX,AWS		1
	91-1006	CLAMP,CABLE,NYLON,.375		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	94-7421-08	SCREW,PH,TORX-T10,M3X0.5X8,SEMS-INT TOOTH-7.35/ 6.85,STL/ZN		1
	95-6007	CABLE,TIE,4,IN.		2
20-6110		ERB FACTORY INSTALLATION KIT (for OmniRx G4)		
	53-7161	MOUNT,OMNIRX,ERB		
	94-6060	NUT,HEX,8-32,SS		
	94-6203	SCREW,BH,TORX,8-32,X,7/8,SS		
20-6111		ERB FACTORY INSTALLATION KIT (for OmniTT G4)		
	94-6060	NUT,HEX,8-32,SS		
	94-6203	SCREW,BH,TORX,8-32,X,7/8,SS		
20-6112		ERB FACTORY INSTALLATION KIT (for 1/2 cell G4)		
	53-7152	BKT,HALF-CELL,MOUNT,ERB		
	94-6060	NUT,HEX,8-32,SS		
	94-6151	SCREW,FH,TORX,8-32,X,1/4,SS T15		
20-6119		ERB INSTALLATION KIT (a la carte for G4)	Used to install an ERB in the field on all G4 products except ANT-FRM-001	
	42-1336-01	CABLE ASSY,ERB,FLEXLOCK,PC4,ADAPTER,CTPC,RX,AWS		
	42-1336-02	CABLE ASSY,ERB,FLEXLOCK,PC4,ADAPTER,AWS-E		
	42-7053	CABLE,ASSY,PWR/COMM,12'		
	51-7034	HANDLE,OMNITT/RX,MOUNT,ERB		
	51-7035	HANDLE,1,2,3-CELL,MOUNT,ERB		
	53-7152	BKT,HALF-CELL,MOUNT,ERB		
	53-7157	BKT,MOUNT,1,2,3-CELL,ERB		
	53-7161	MOUNT,OMNIRX,ERB		
	91-1006	CLAMP,CABLE,NYLON,.375		
	91-2051	STRAIN,RELIEF,HEYCO,1244		
	94-6060	NUT,HEX,8-32,SS		
	94-6151	SCREW,FH,TORX,8-32,X,1/4,SS T15		
	94-6203	SCREW,BH,TORX,8-32,X,7/8,SS		
	94-7421-08	SCREW,PH,TORX-T10,M3X0.5X8,SEMS-INT TOOTH-7.35/ 6.85,STL/ZN		
	95-6007	CABLE,TIE,4,IN.		

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Table A-1. ERB Parts (4 of 4)

Kit #	Part #	Item Description	Notes	Qty
20-6120		ERB/FLEXLOCK CABLE KIT (AWS G4)		
	42-1336-02	CABLE ASSY,ERB,FLEXLOCK,PC4,ADAPTER,AWS-E		1
	91-2051	STRAIN,RELIEF,HEYCO,1244		1
	94-6090	CABLE,MOUNT,KURLY,LOK,RICHCO KLB-350A-RT		1
	95-6007	CABLE,TIE,4,IN.		7
20-7001		ERB INSTALLATION KIT (for AWS)		-
	42-7052	CABLE ASSY, RETROFIT-AUX, ERB	mounts to ERB	1
	53-7156	BRACKET, AUX CUTOUT, ERB	mounts to host cabinet	1
	53-7159	BKT,ANESTHESIA,MOUNT,ERB		1
	91-2051	STRAIN RELIEF, HEYCO, #1244	mounts to ERB	1
	91-2052	STRAIN RELIEF, HEYCO, #1207	mounts to host cabinet	1
	94-6060	NUT, HEX, 8-32, SS		4
	94-6132	SCREW, BH, TORX, 8-32 X 3/16, SS		4
	95-6007	CABLE TIE, 4 IN..		4

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